

99 — B

FIG. 1

RECEIVED  
NOV 13 2003  
TECH CENTER 1600/2900



300

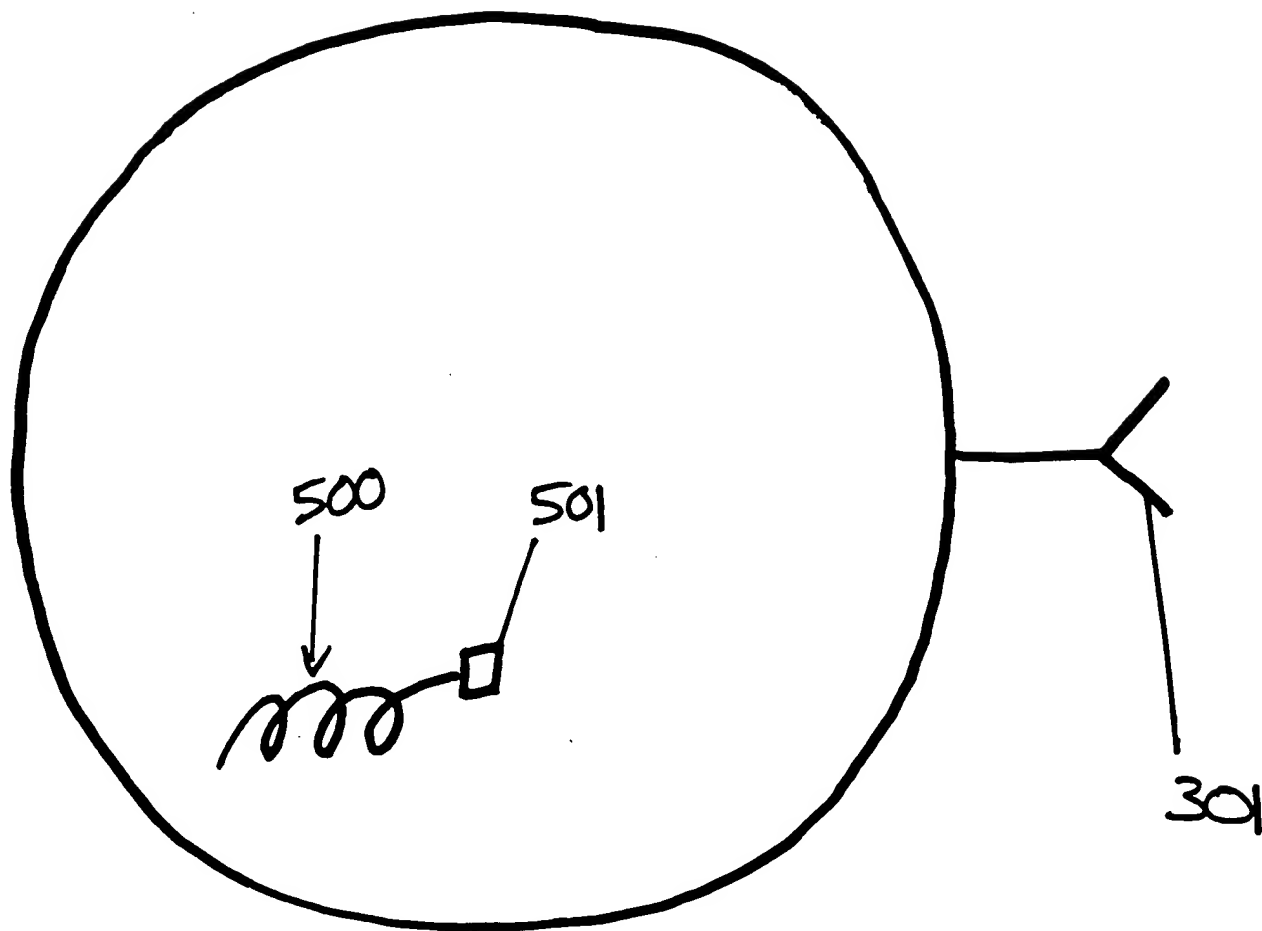


FIG. 2



350

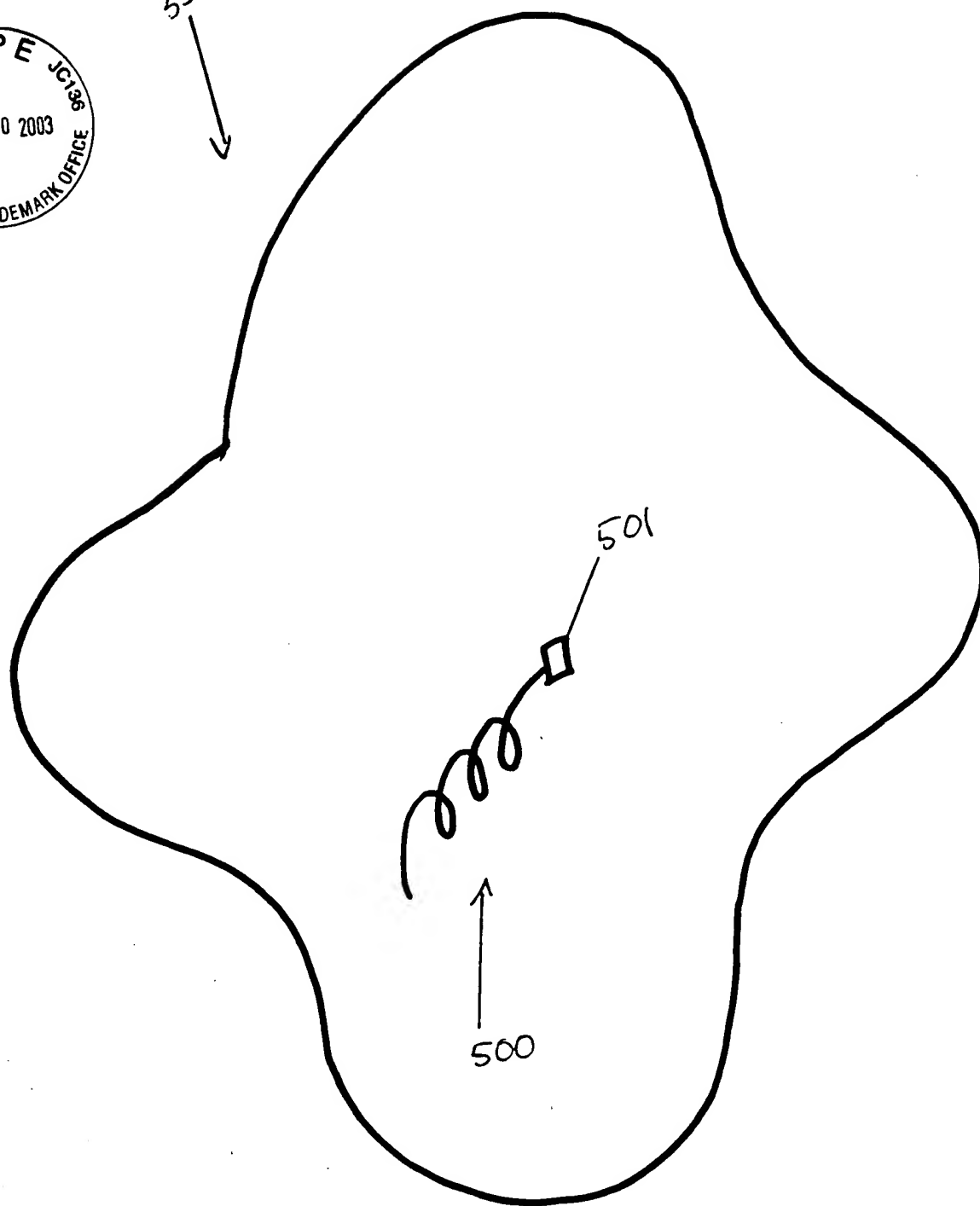
An arrow pointing from the label 350 to the main body of the device.

FIG. 3

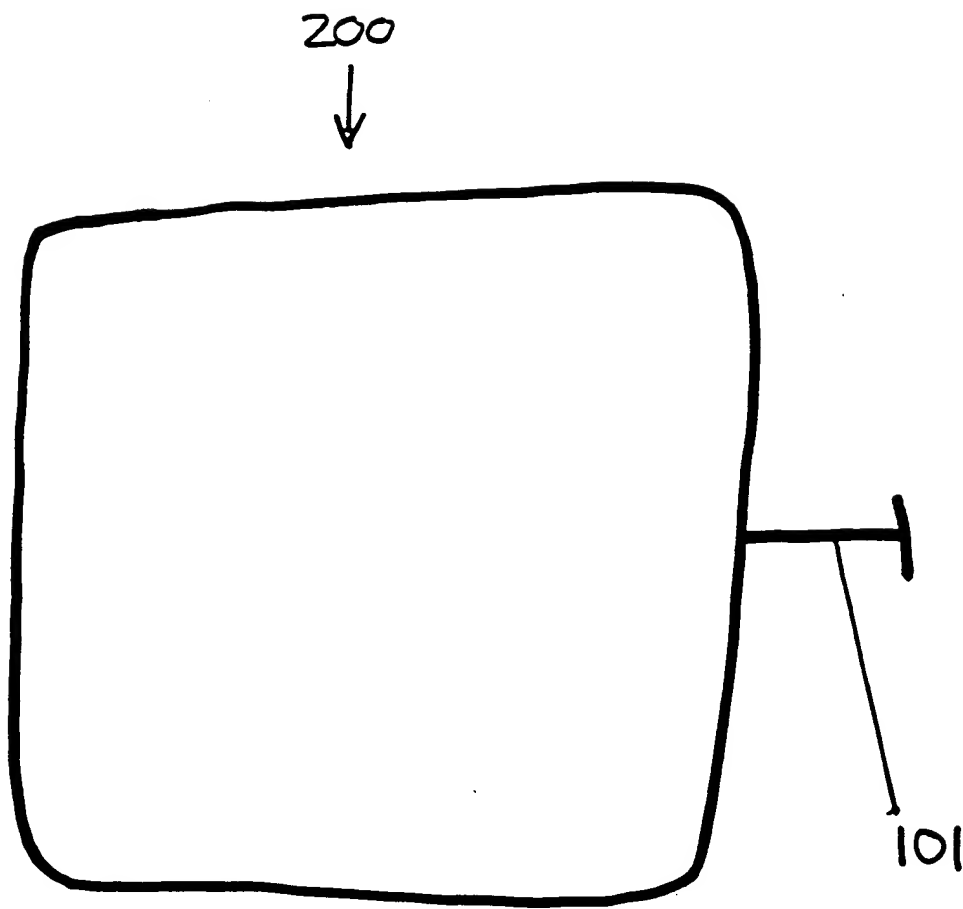


FIG. 4

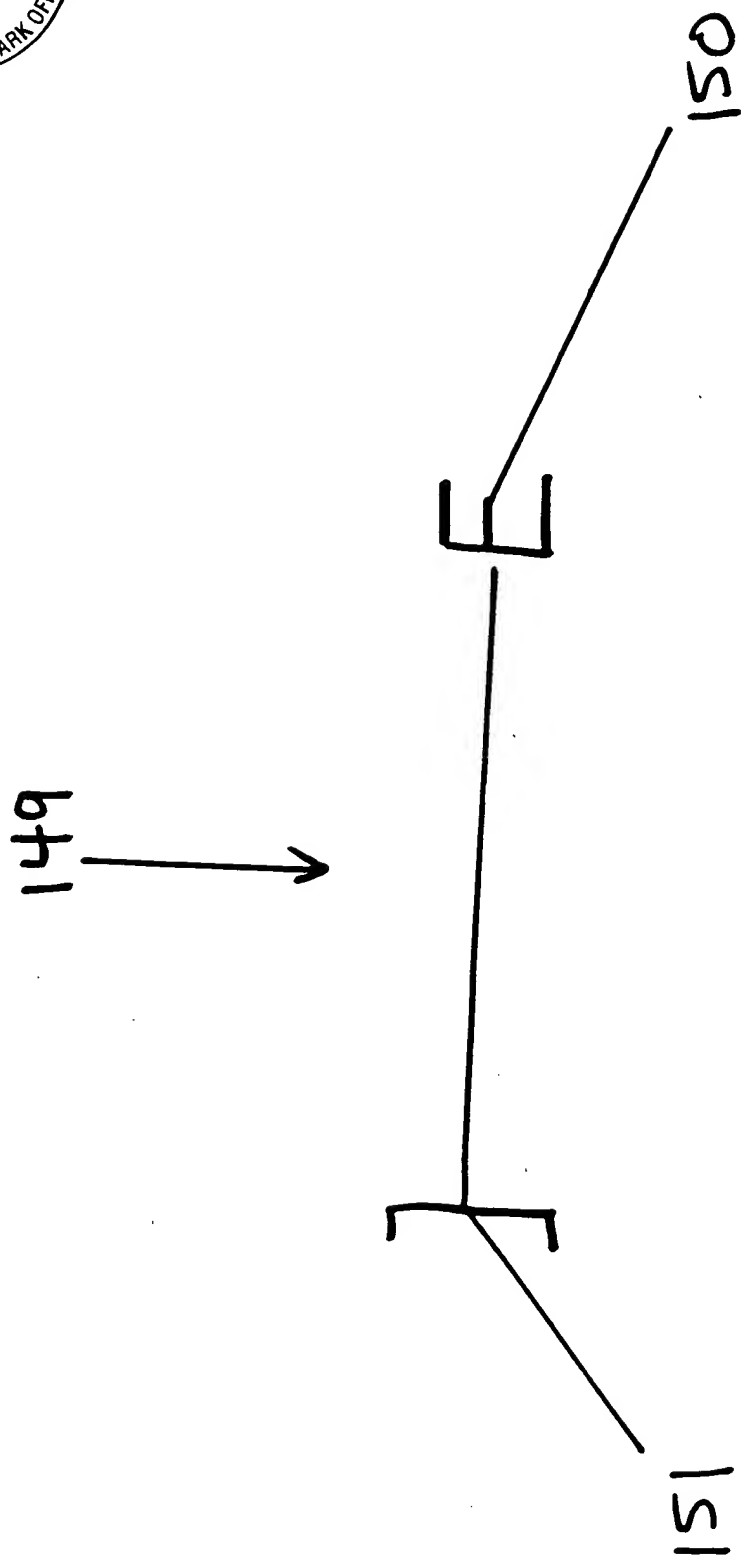
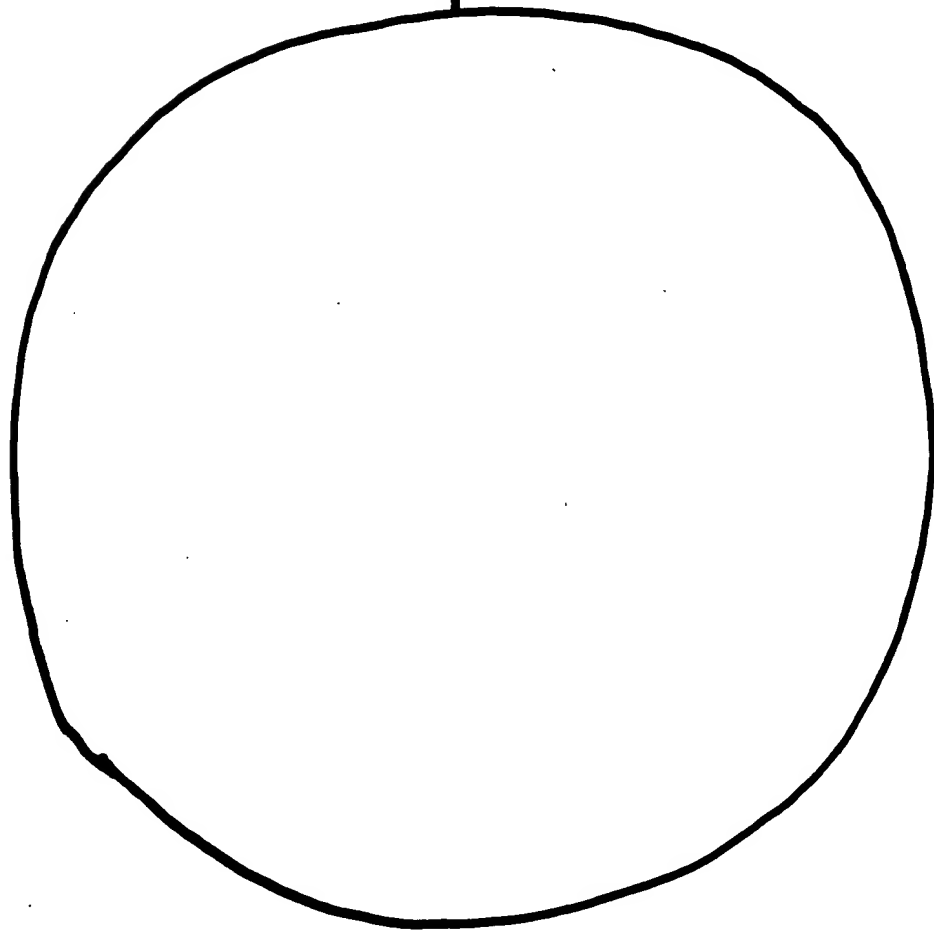


FIG. 5



190



149

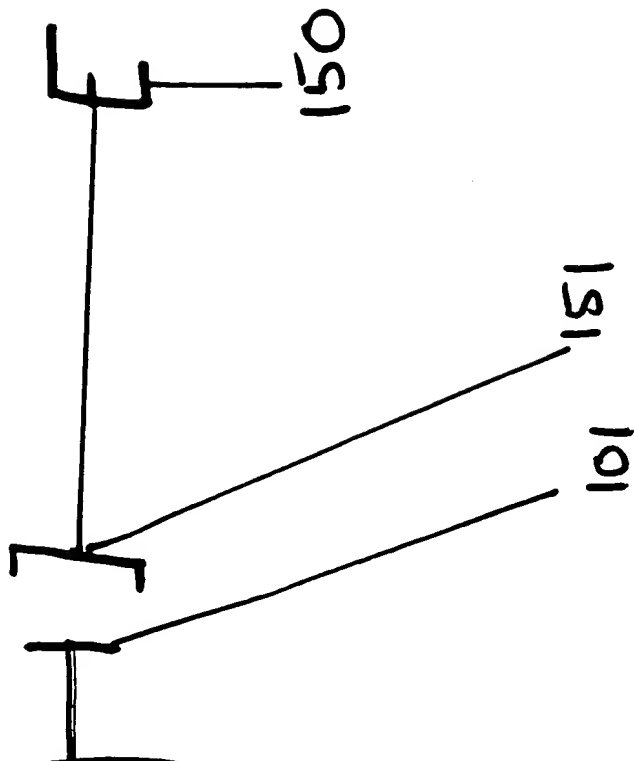


FIG. 6



200

149

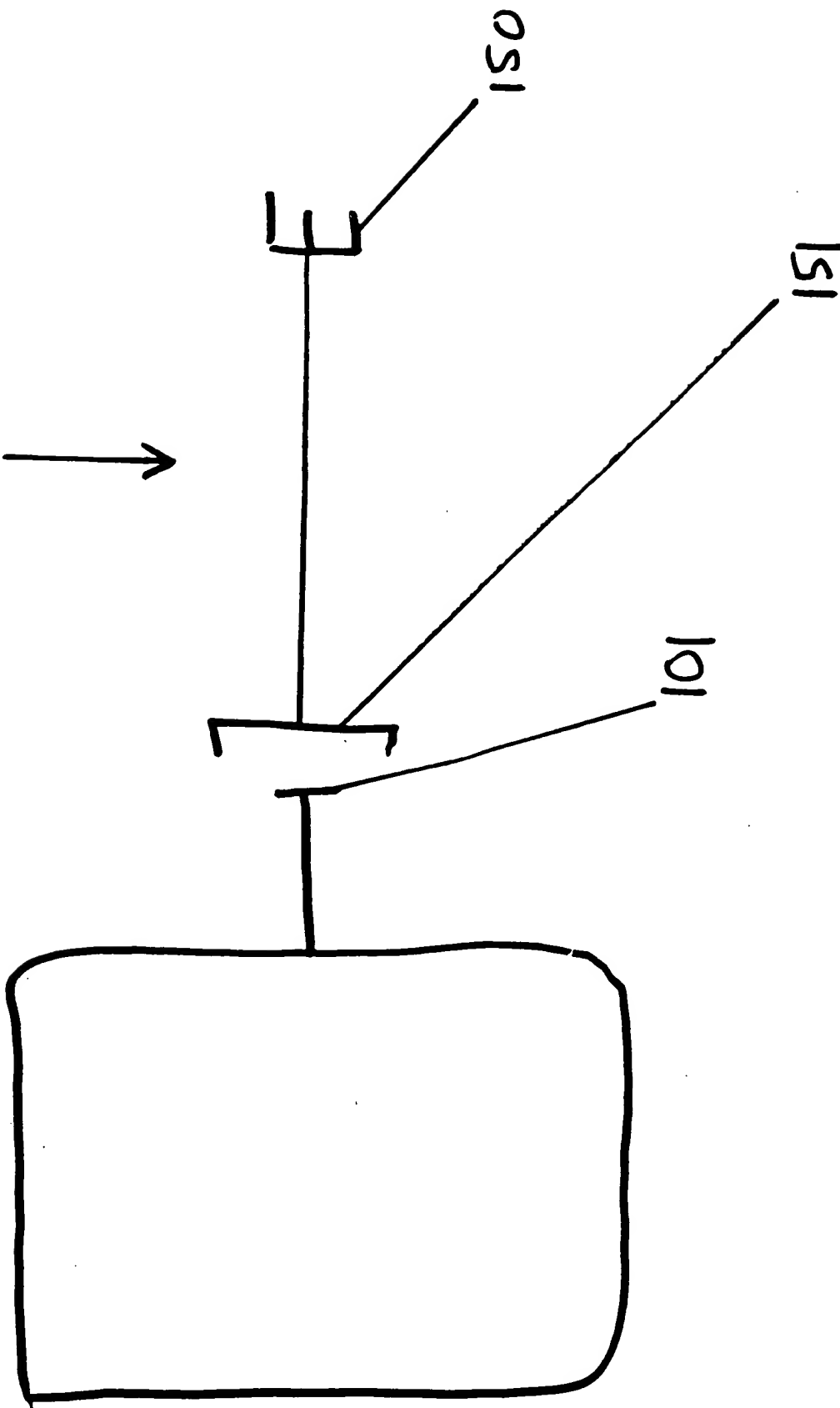


FIG. 7

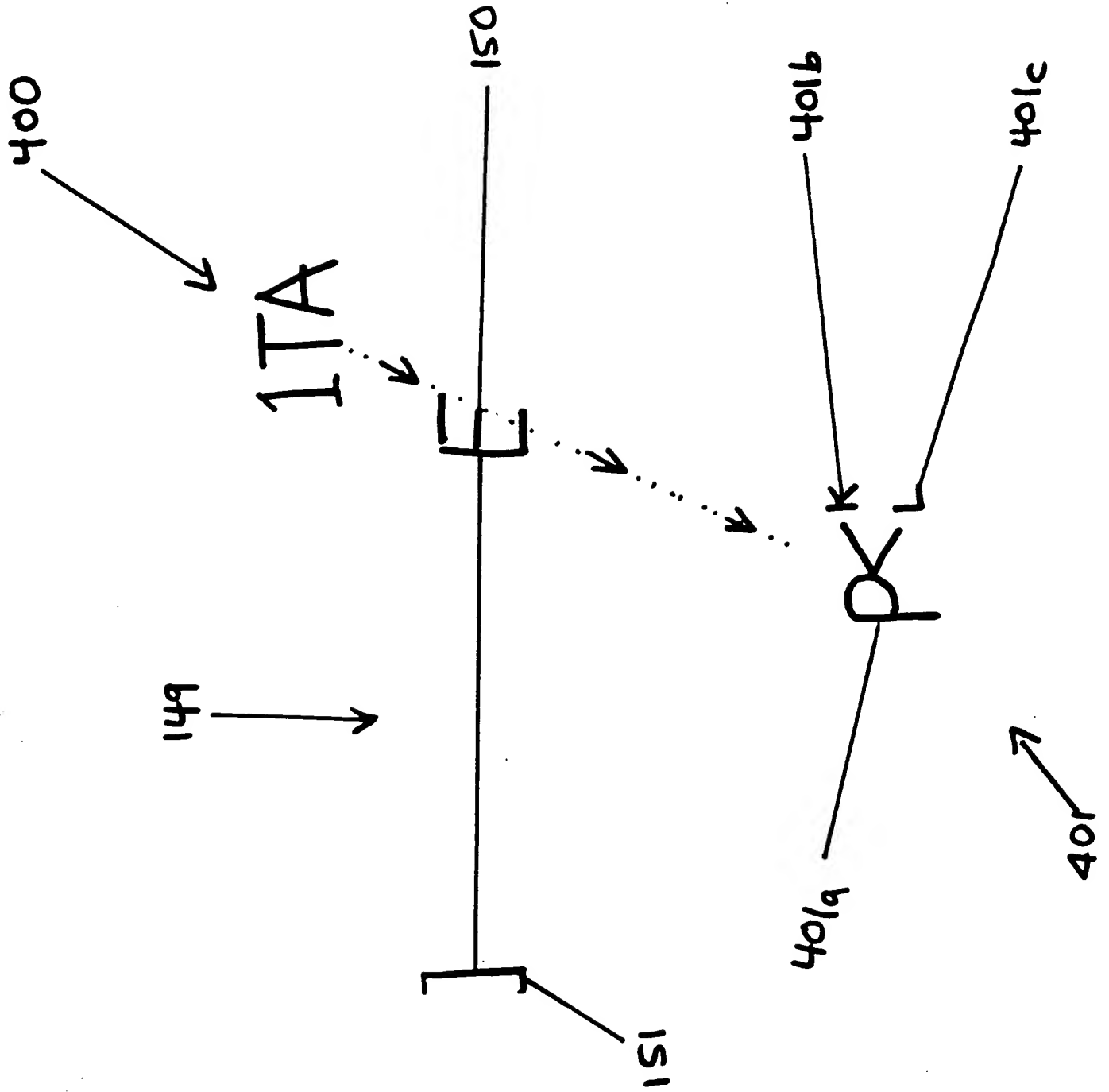


FIG. 8



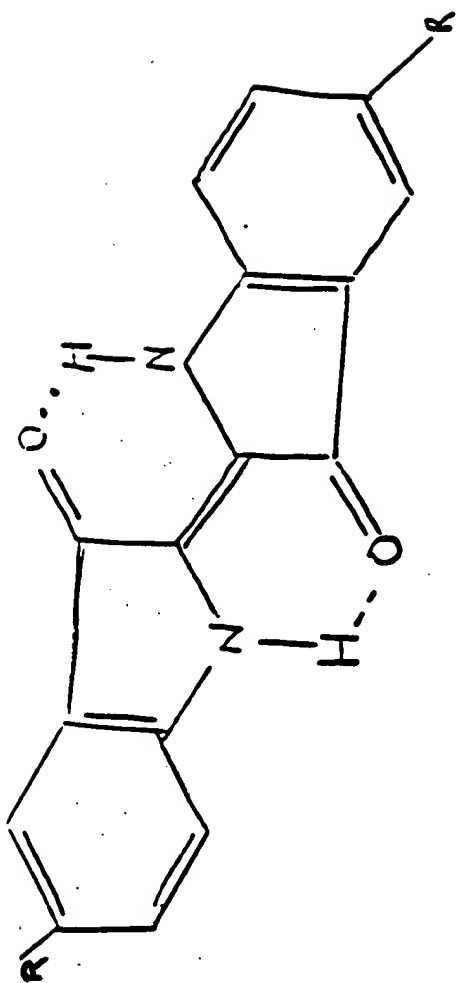


FIG. 9

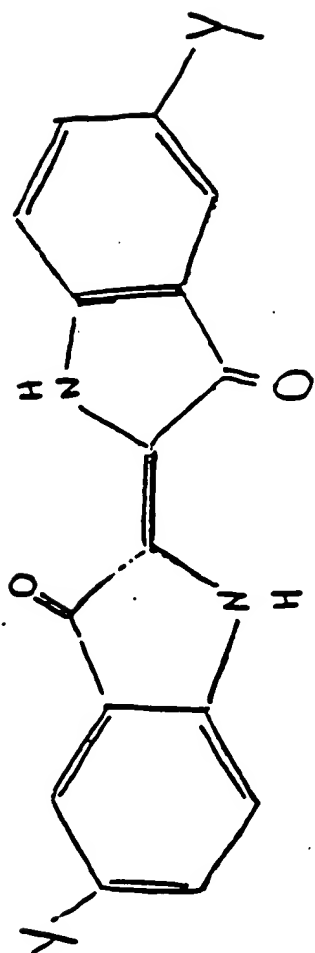


FIG. 10

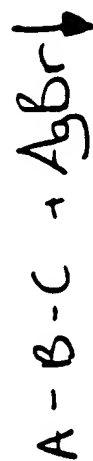
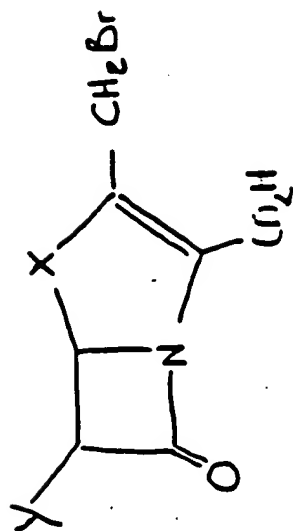
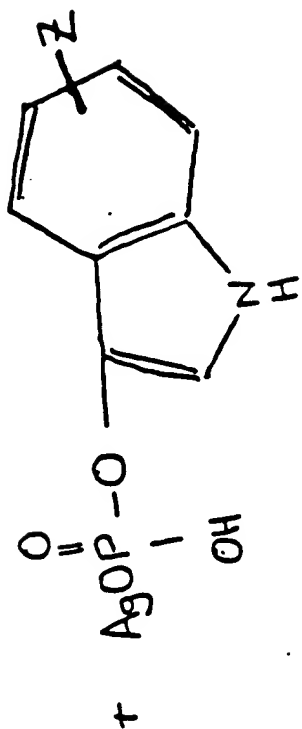


FIG. 11

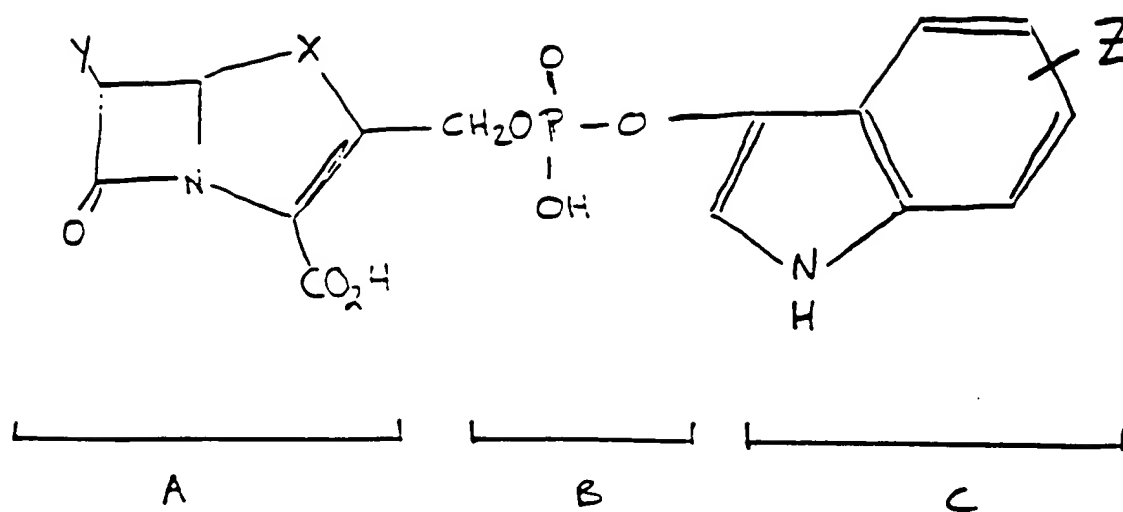
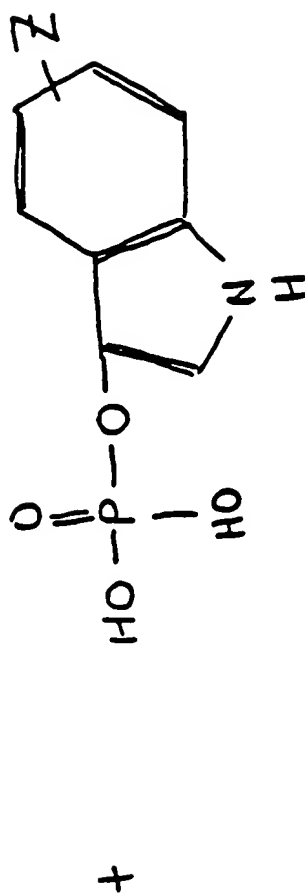
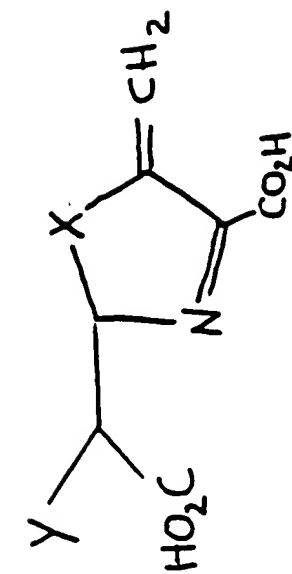
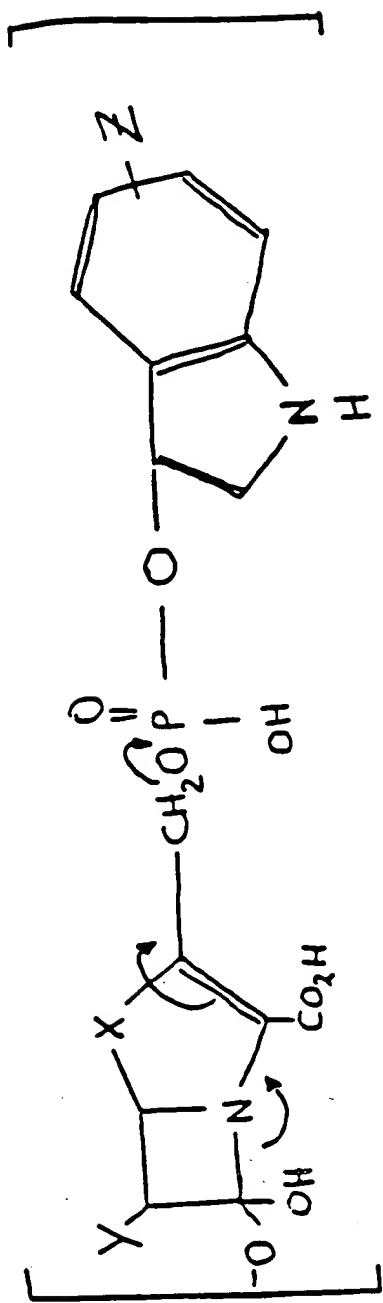


FIG. 12.



ABC  $\beta$ -lactamase



resulting from the action of  $\beta$ -lactamase opening of the  $\beta$ -lactam and elimination

Indoxyl Phosphate

Indoxyl

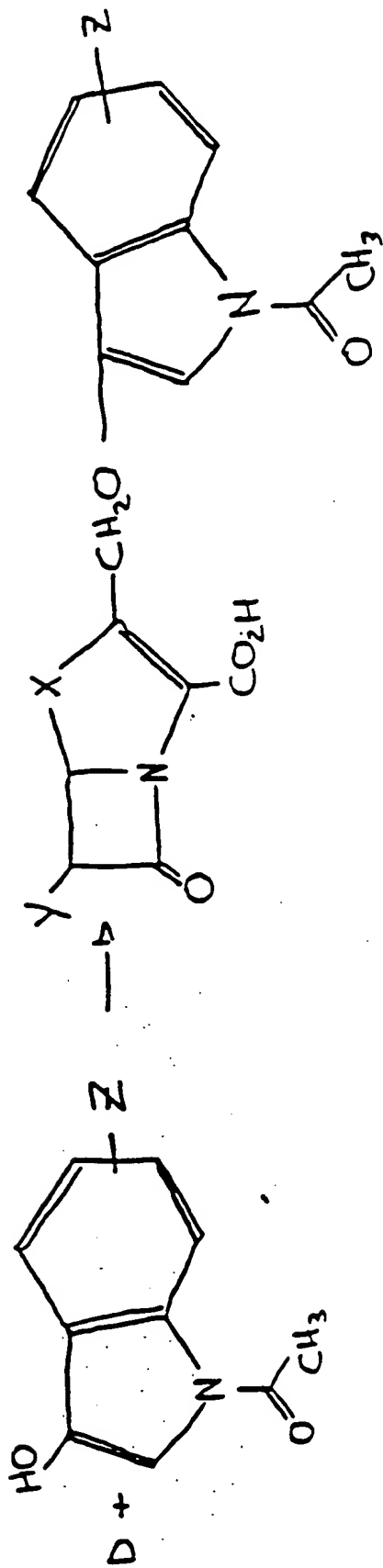
phosphatase

oxidation and dimerization

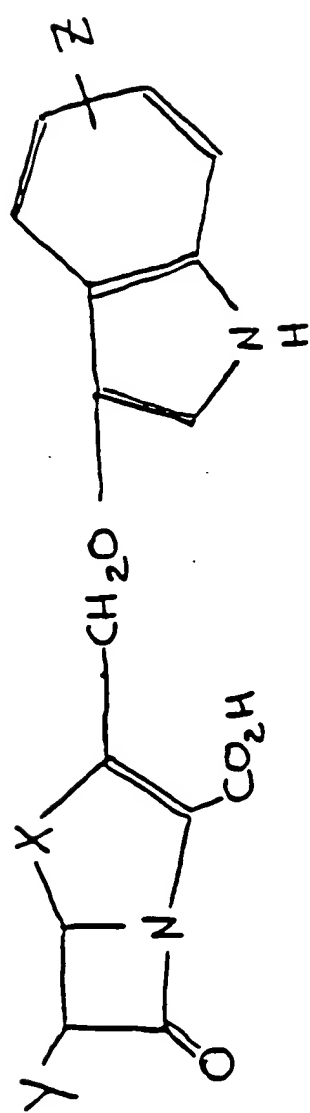
Indoxyl Phosphate

precipitate substituted indigo

FIG. 13



$\text{NaHCO}_3 / \text{H}_2\text{O}$



Beta lactamase

+

Indoxyl



oxidation and  
dimerization

precipitate substituted indigo

FIG. 14

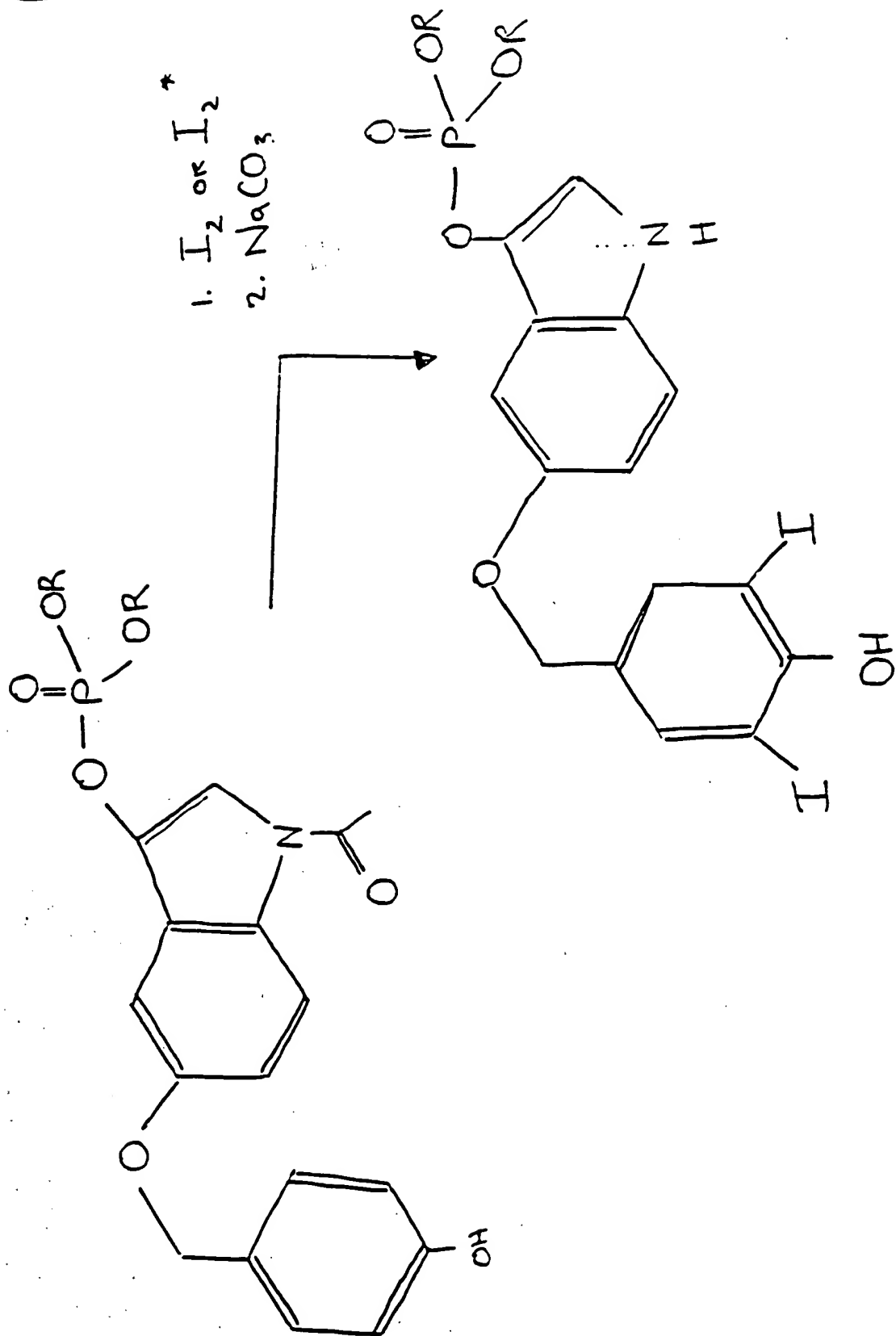


FIG. 15

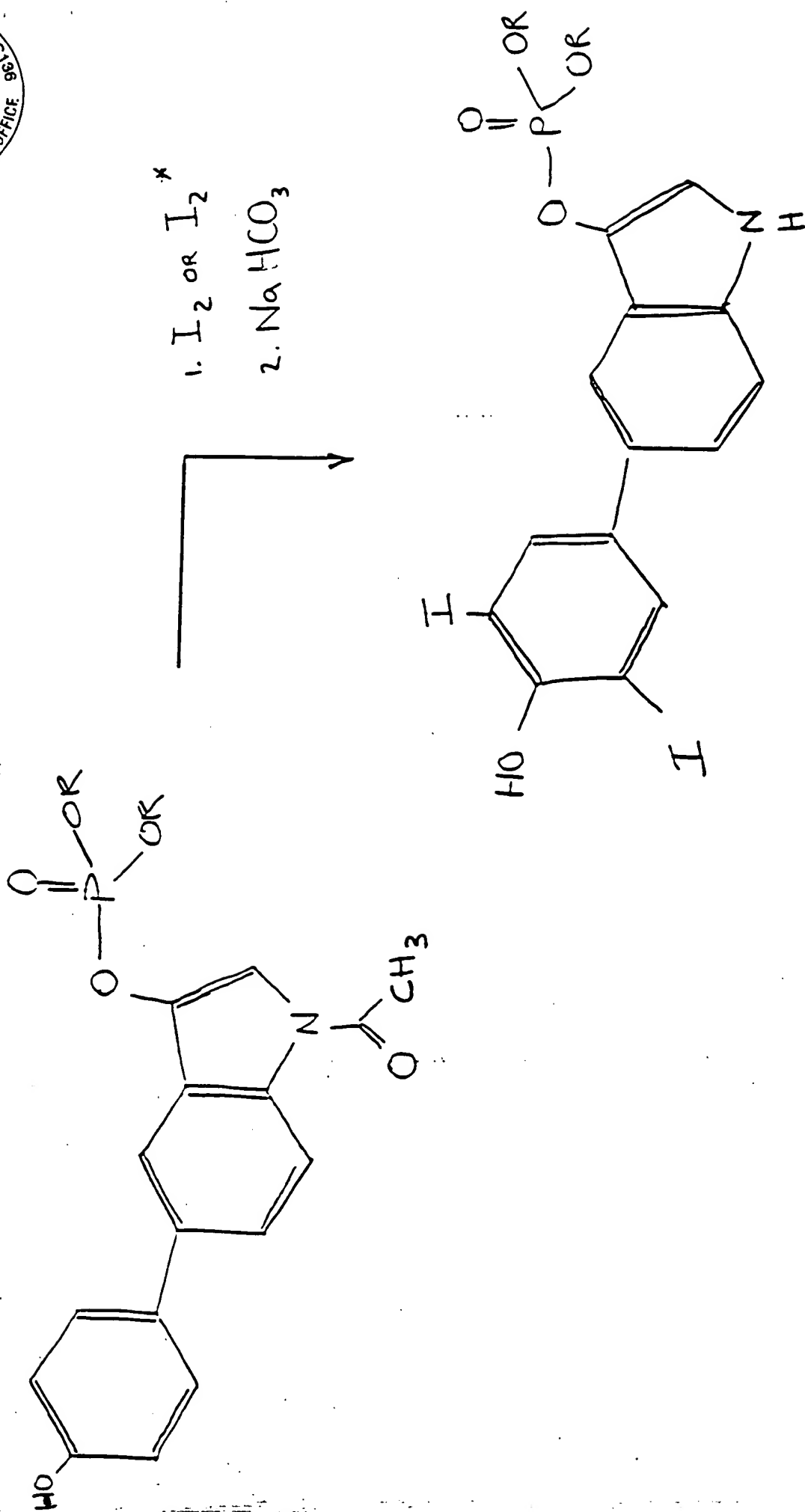
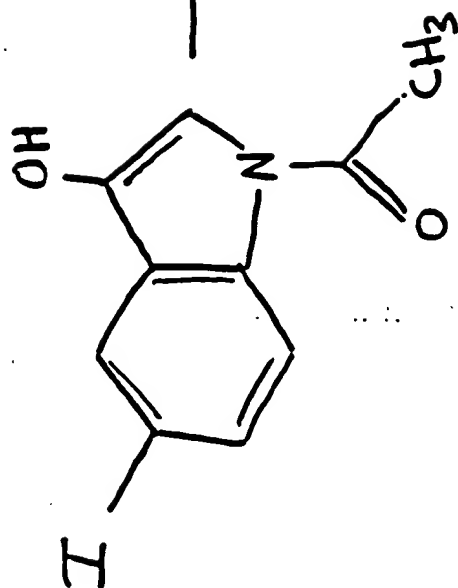


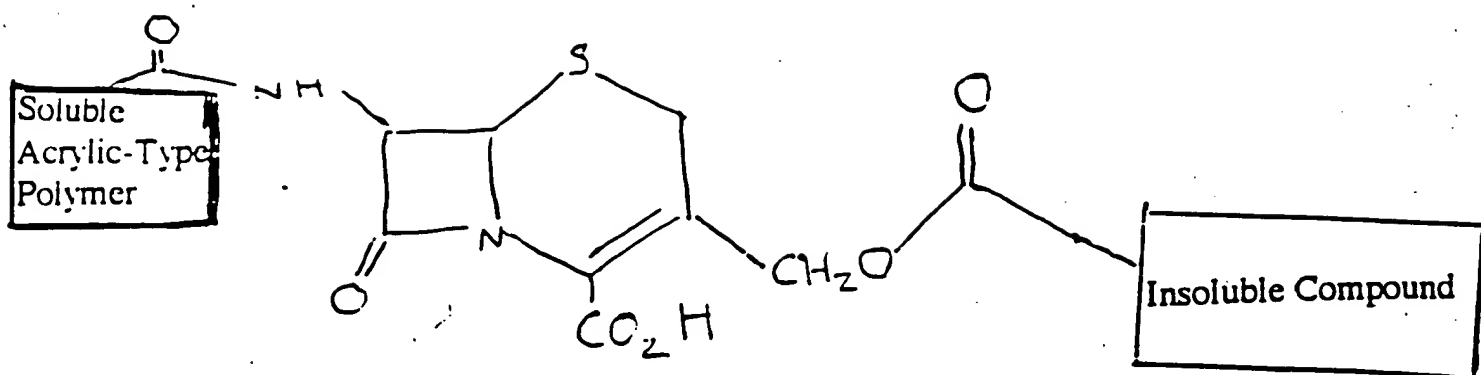
FIG. 16





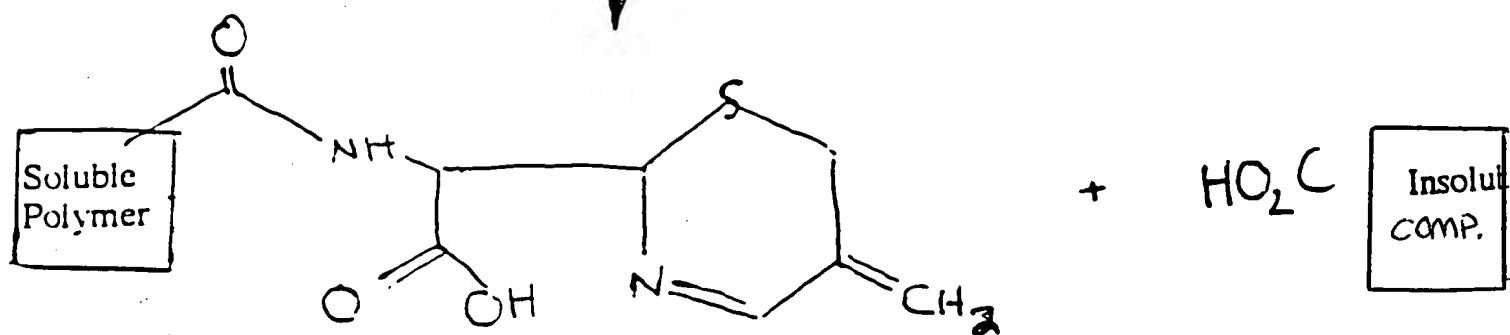
EXCHANGE WITH  
RADIOACTIVE IODINE

FIG. 17



7-aminocephalosporanic acid

Beta Lactamase

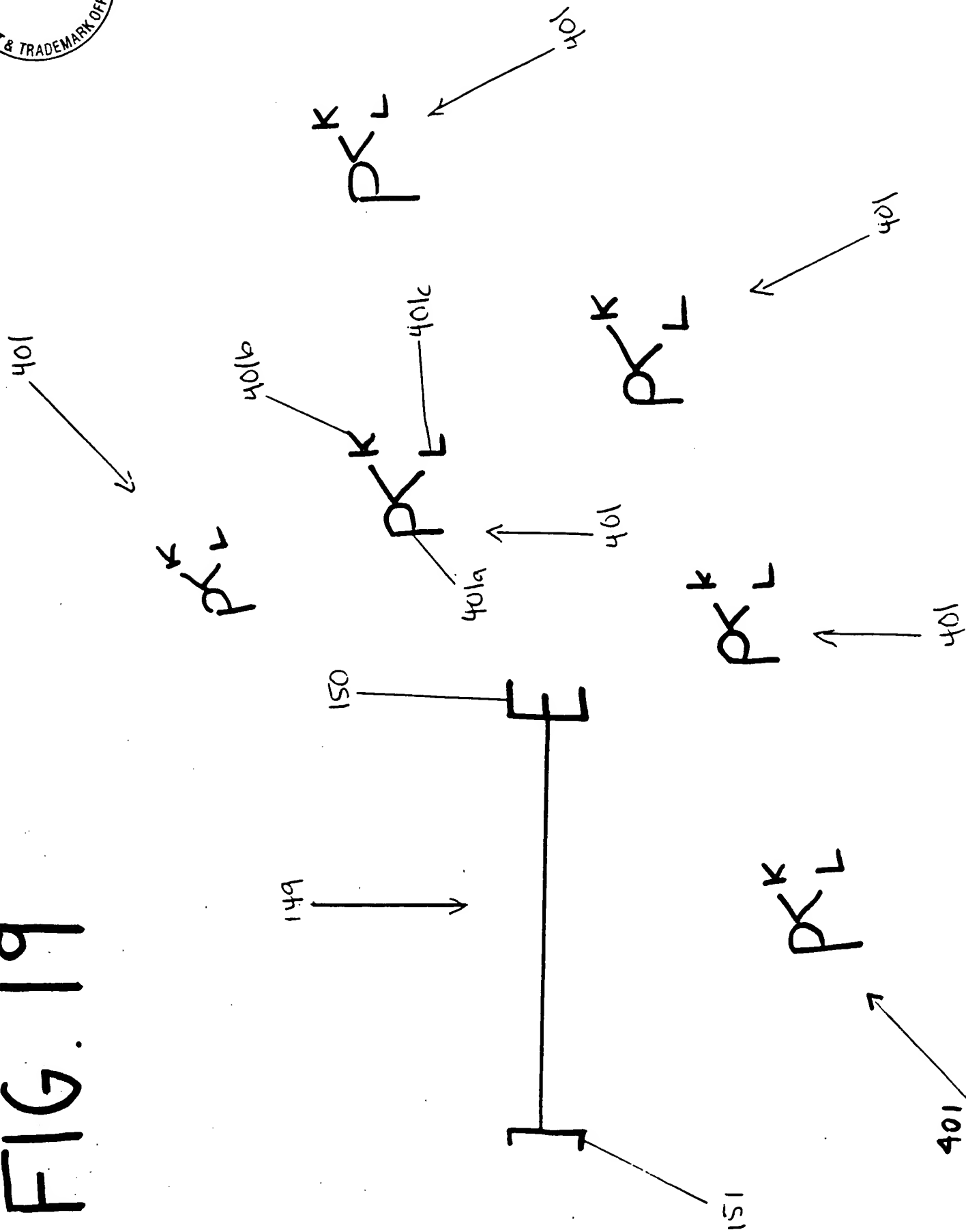


As shown the cephalosporin residue stays attached to the soluble polymer



FIG. 18

FIG. 19



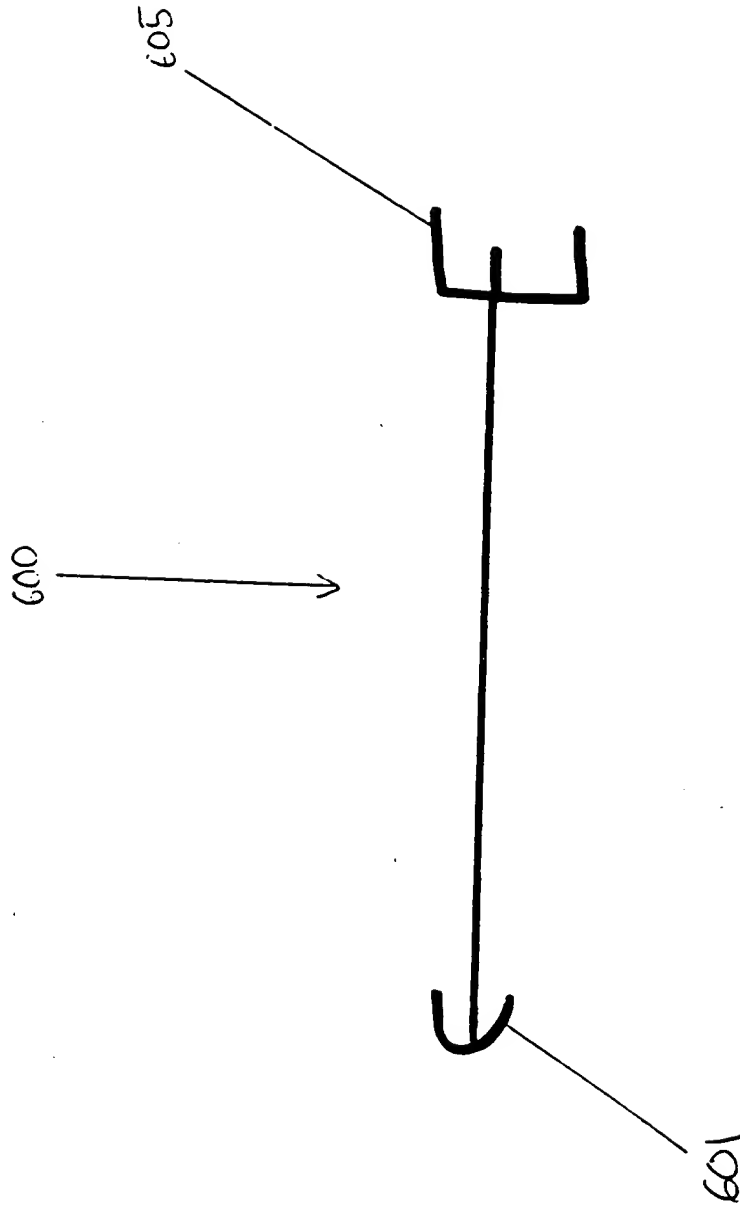


FIG. 20

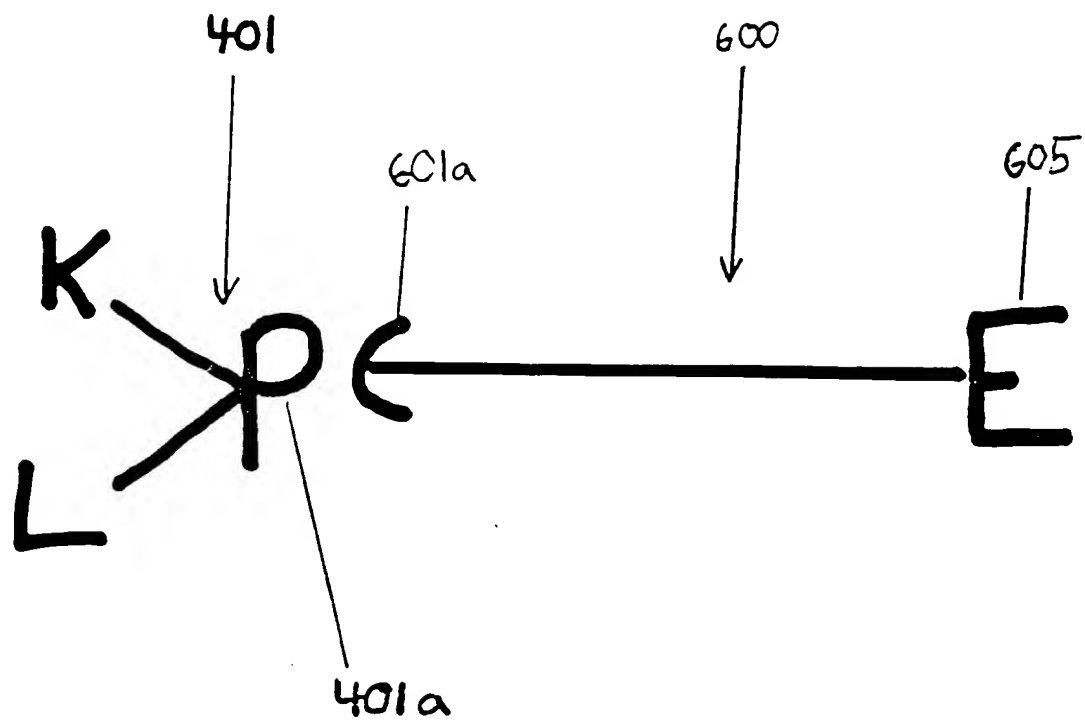


FIG. 21

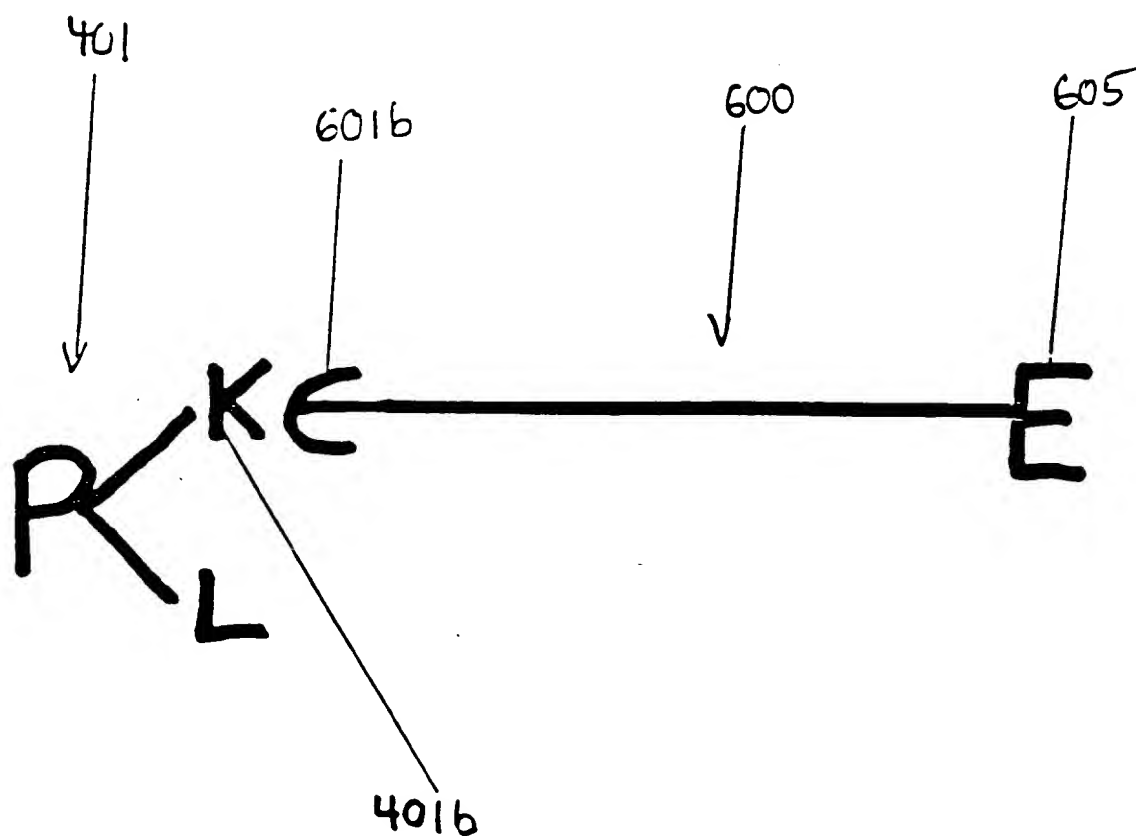


FIG. 22

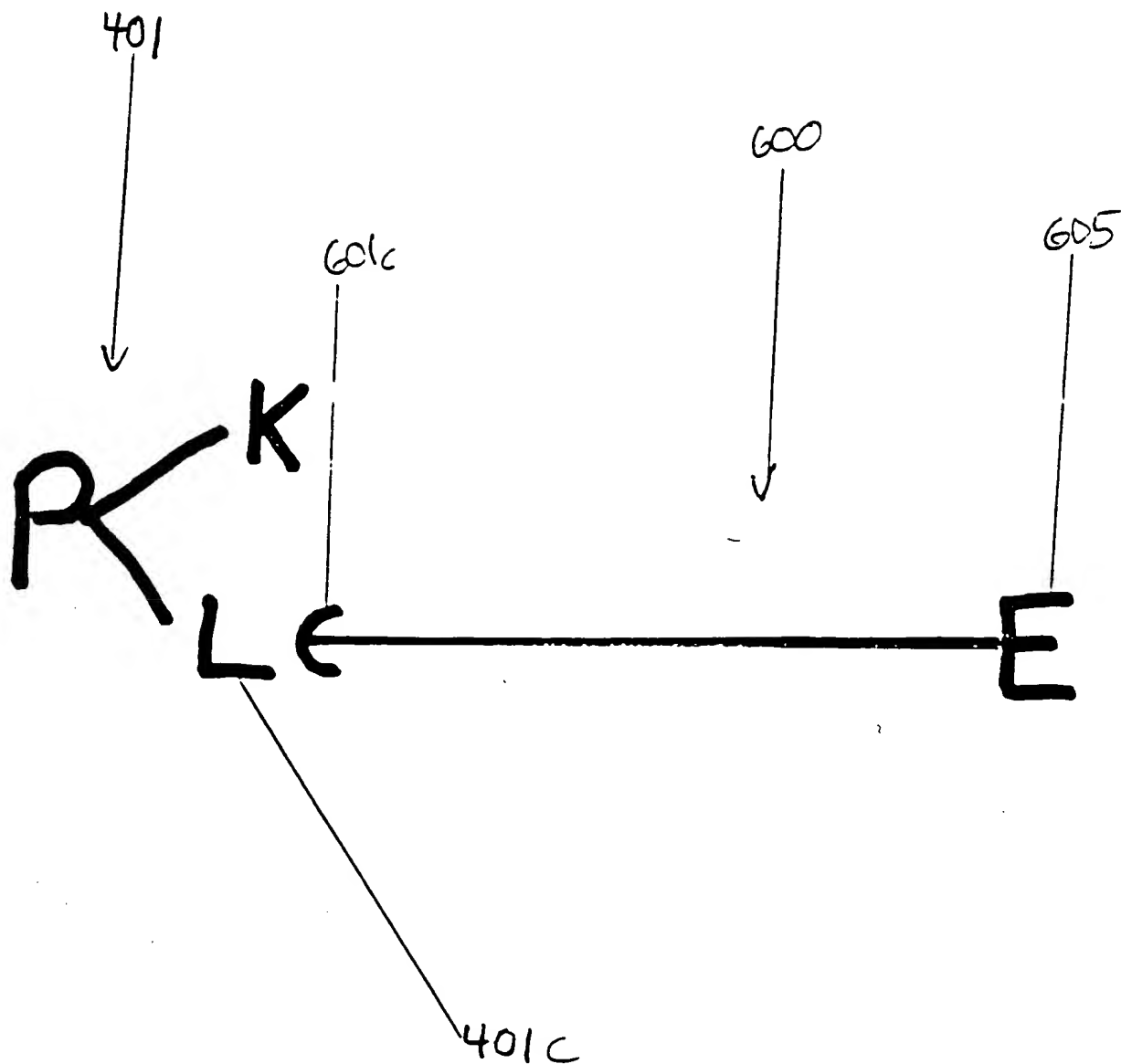


FIG. 23

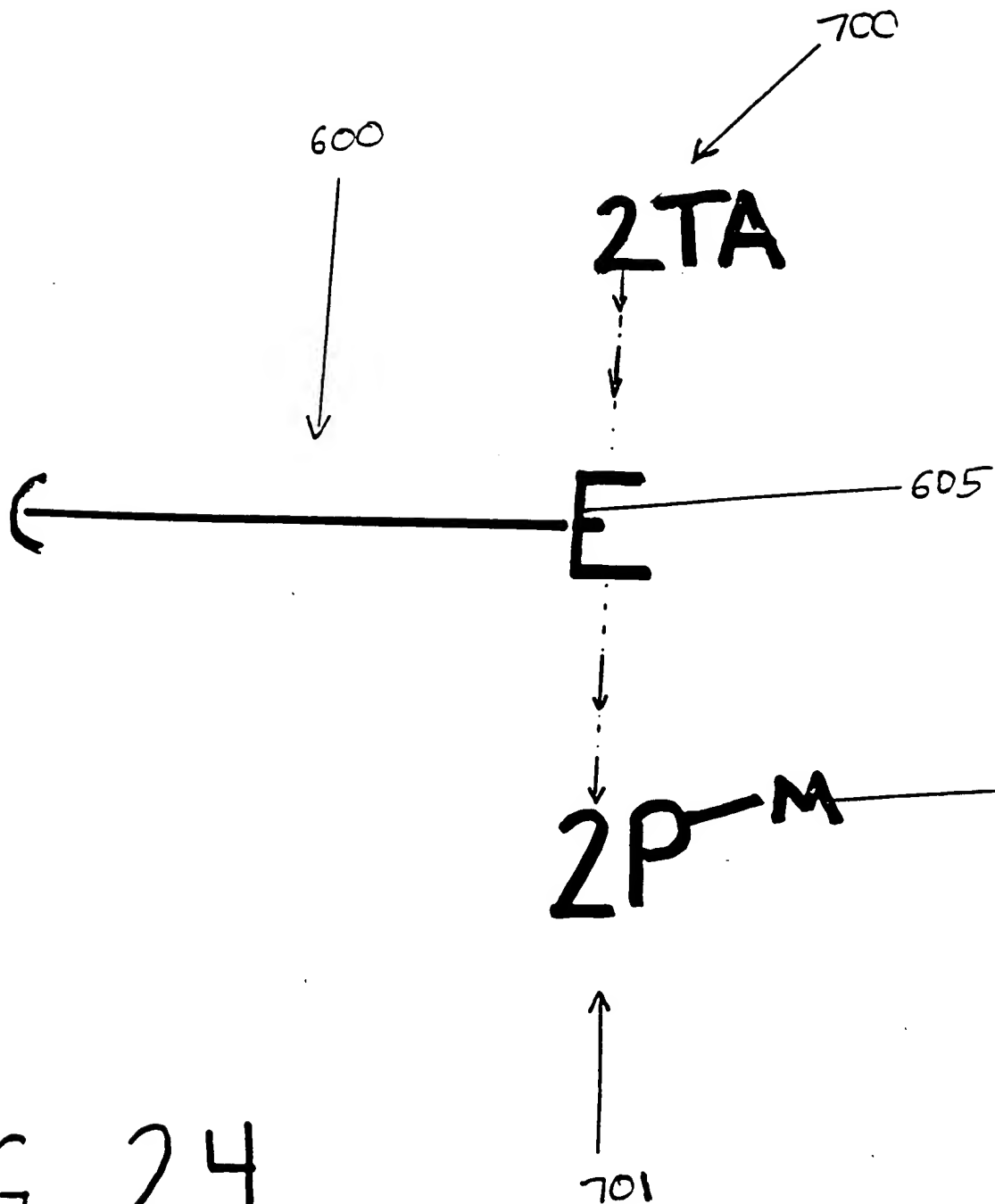


FIG. 24



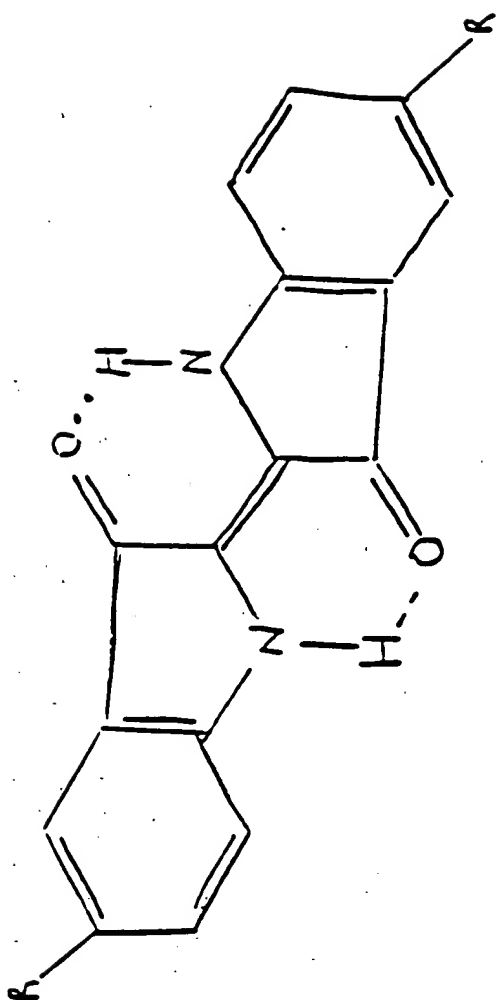


FIG. 25

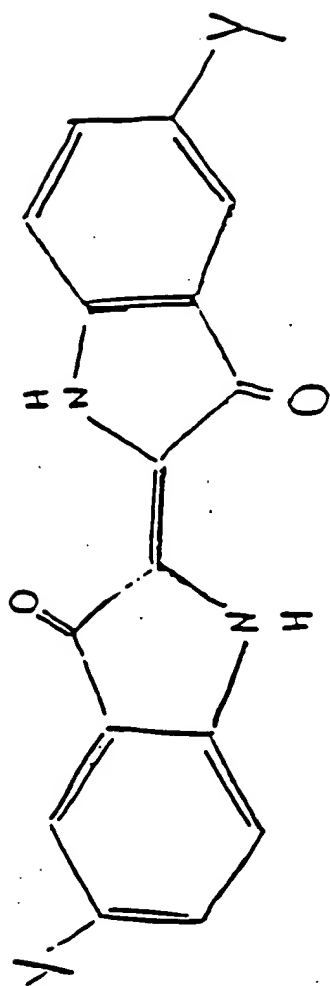


FIG. 26

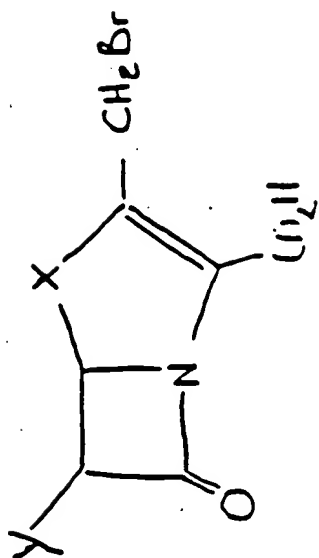
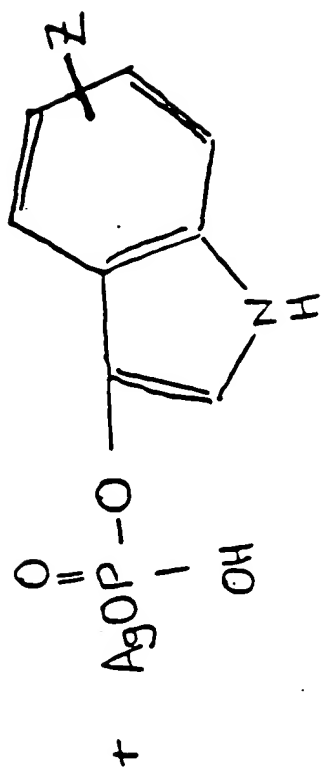


FIG. 27

A - B - C - AgBr

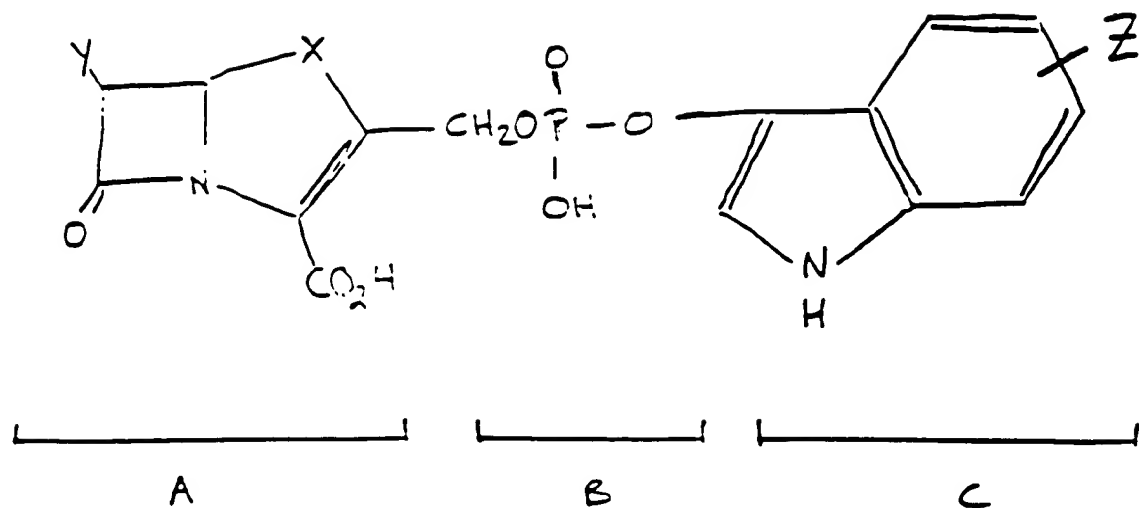
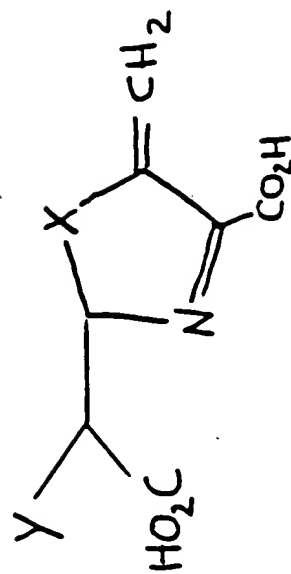
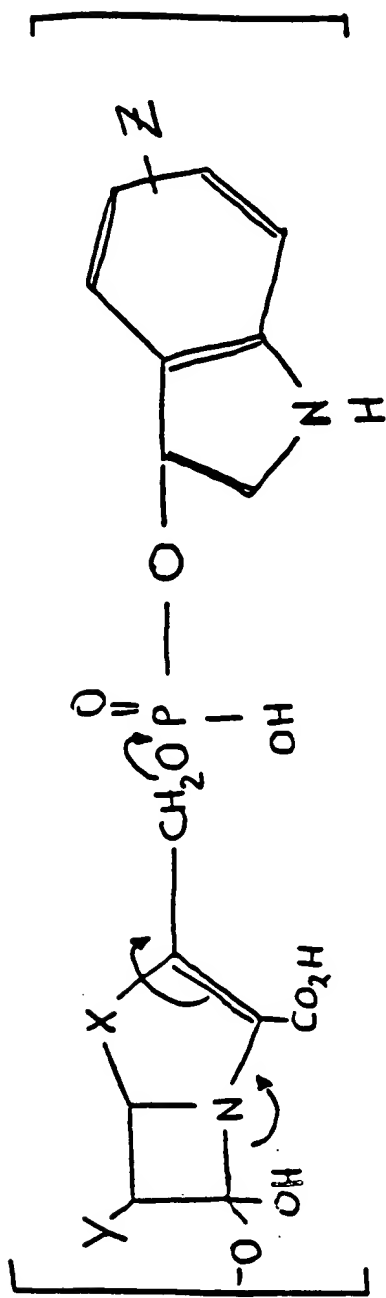
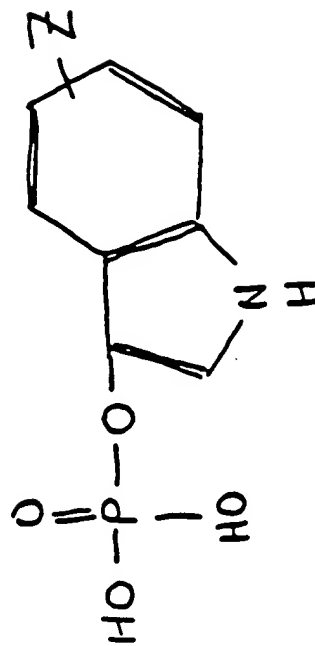


FIG. 28





resulting from the action of  $\beta$ -lactamase opening of the  $\beta$ -lactam and elimination



Indoxyl Phosphate

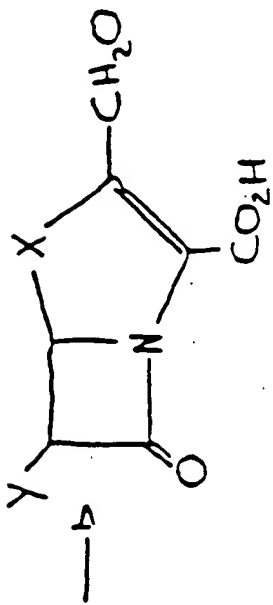
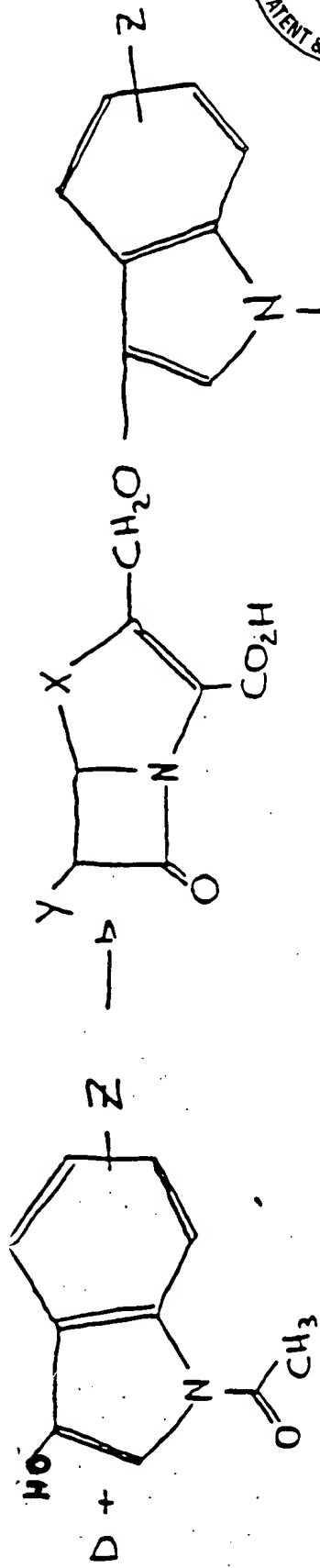
Indoxyl Phosphate

phosphatase

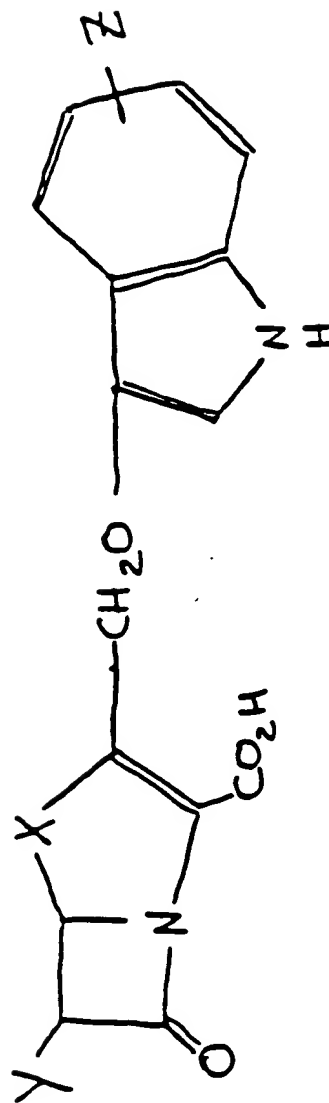
Indoxyl

oxidation and  
dimerization

FIG. 29



$\xrightarrow{NaHCO_3 / H_2O}$



Beta lactamase

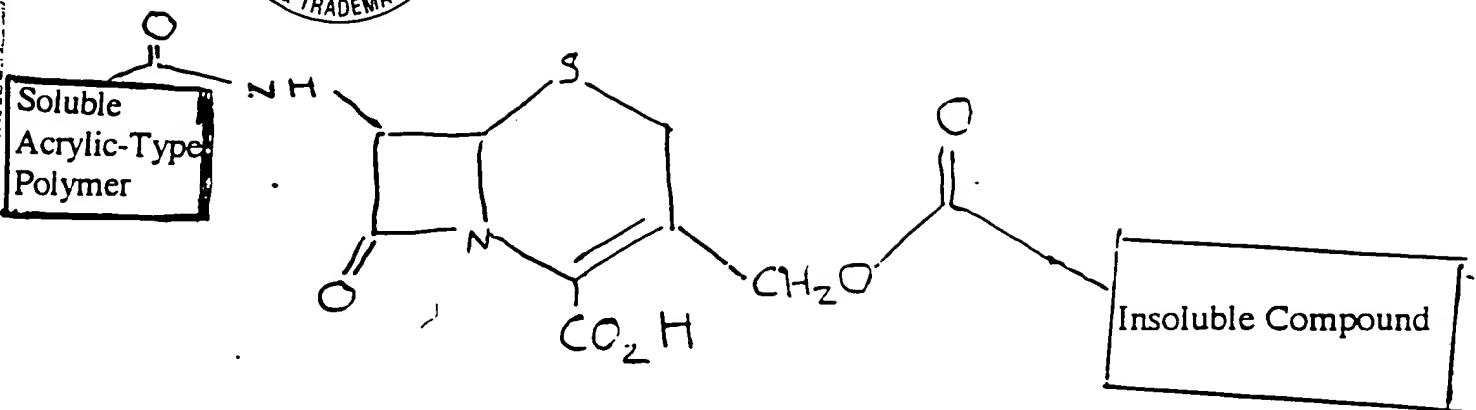
+

Indoxyl

oxidation and  
dimerization

precipitate substituted indigo

FIG. 30



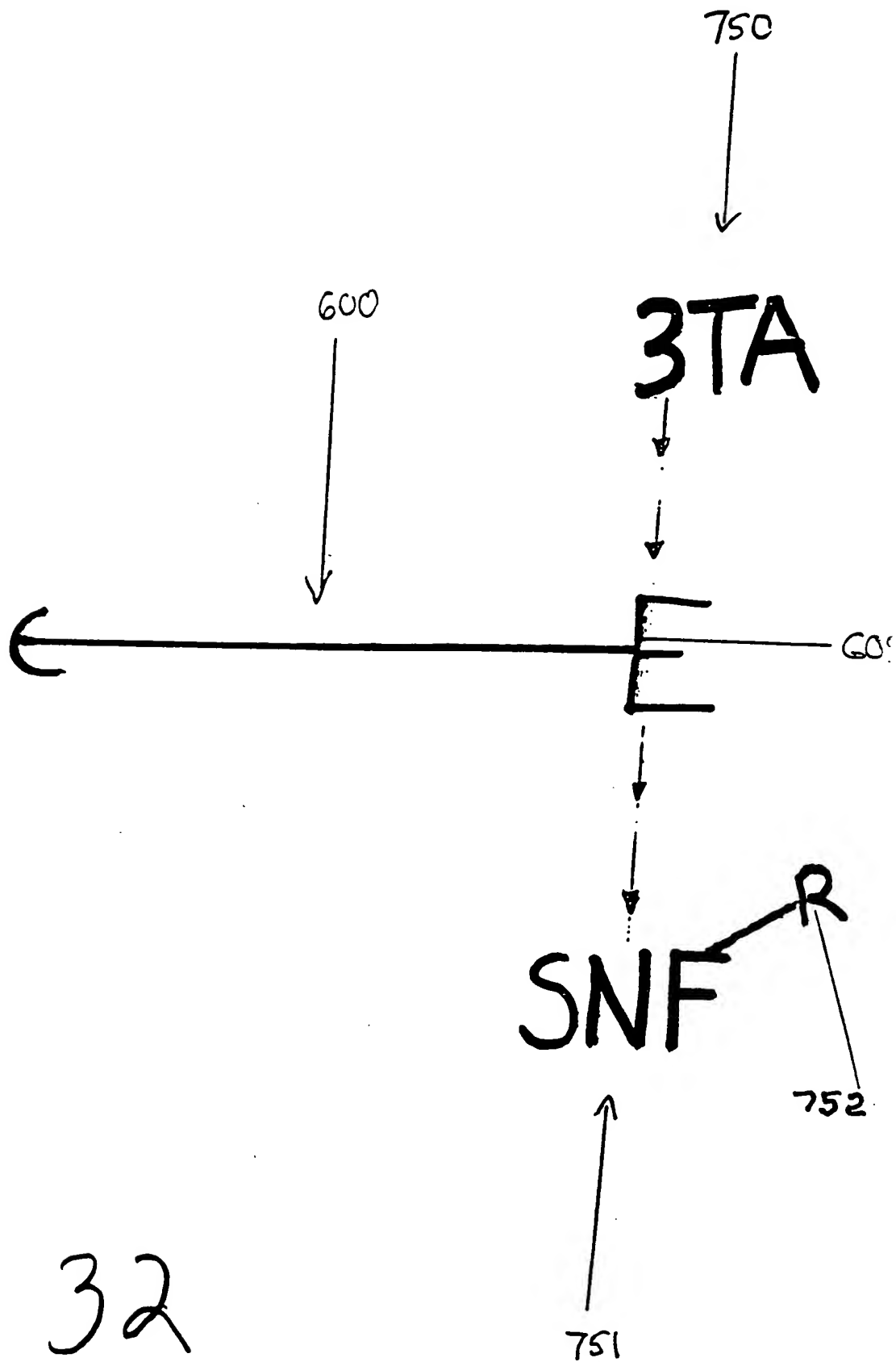


FIG. 32

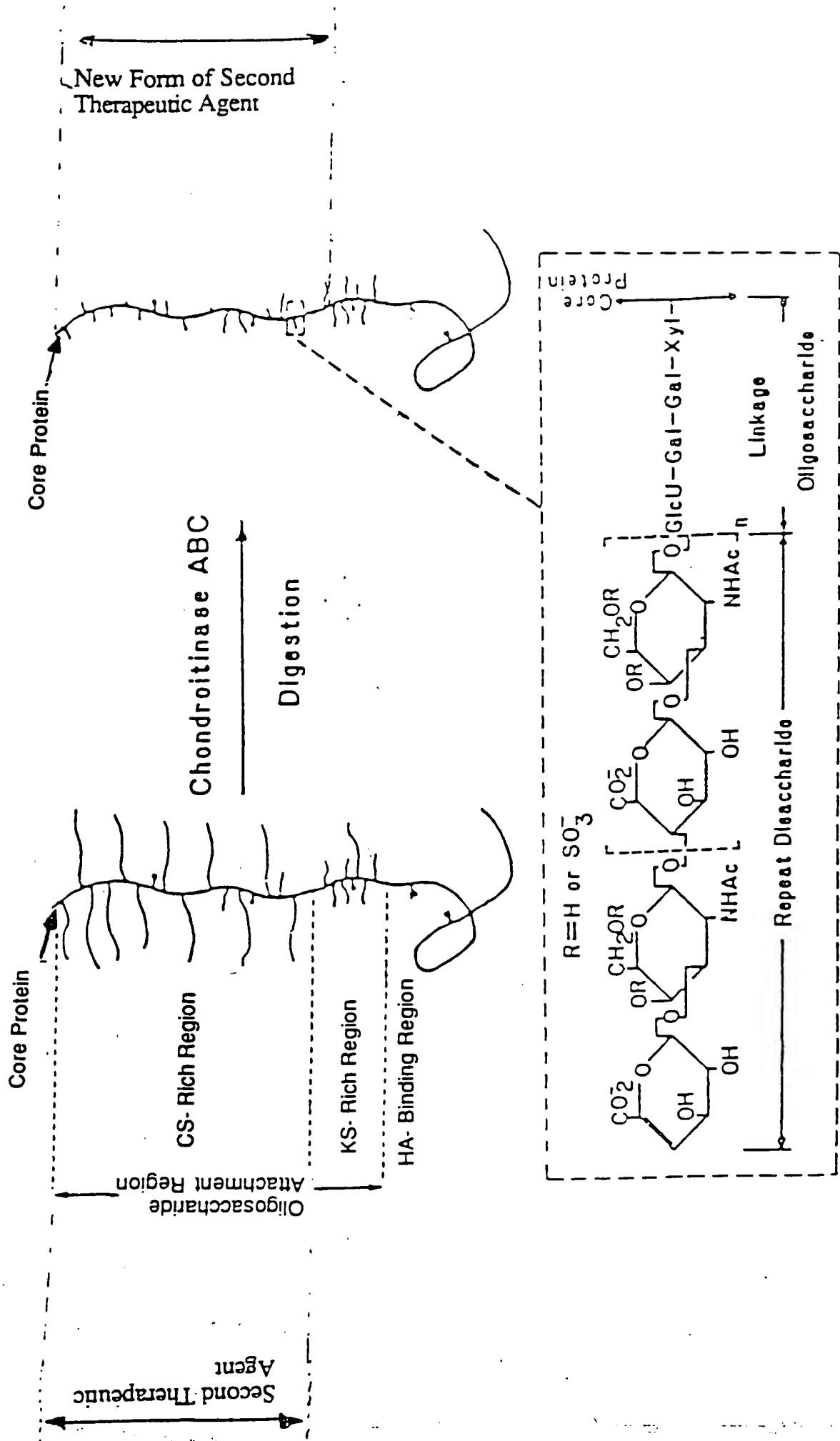


## New Form of Second Therapeutic Agent



# FIG. 33

O.I.P.E. JC188  
OCT 30 2003  
PATENT & TRADEMARK OFFICE



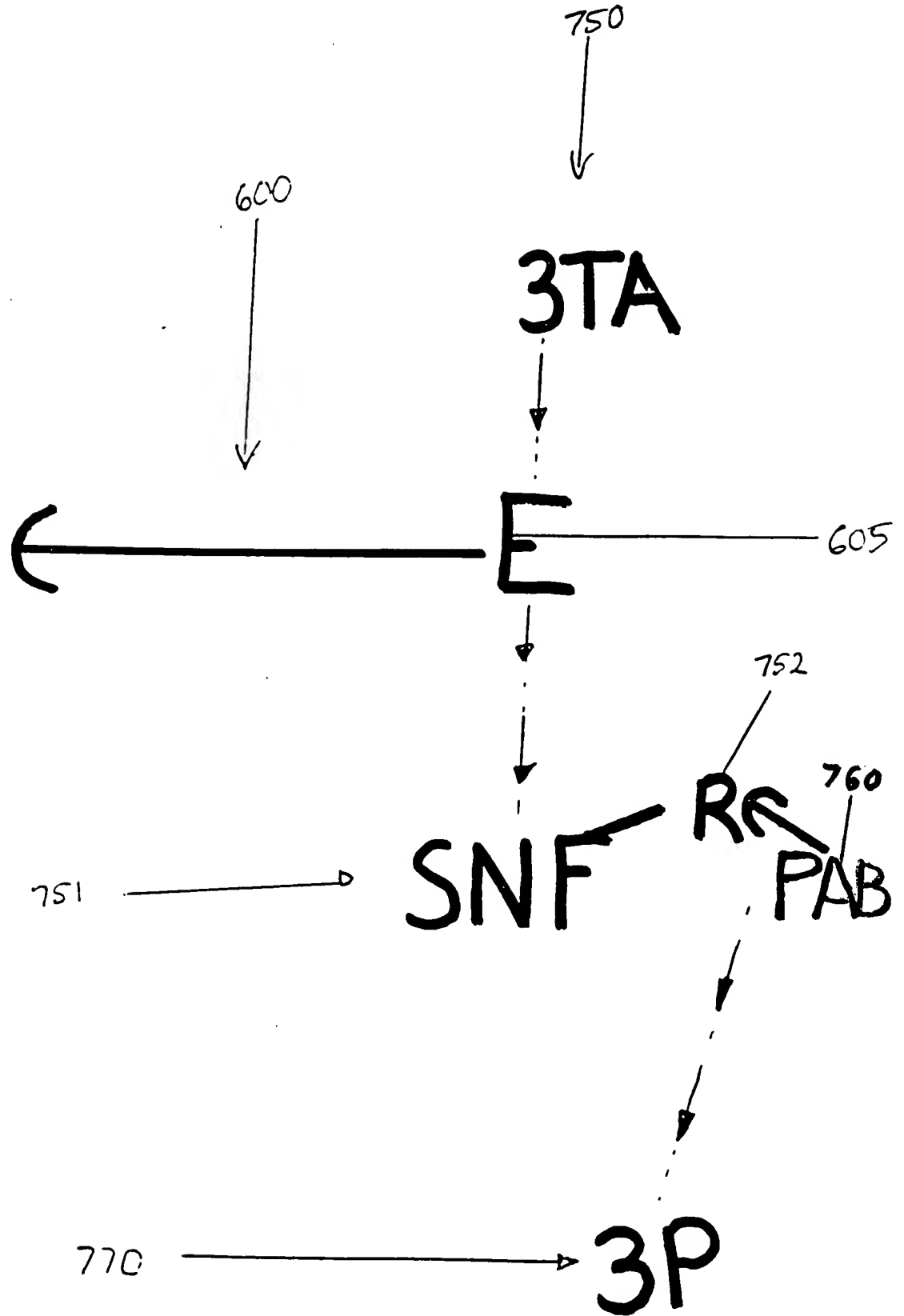


FIG. 34



300

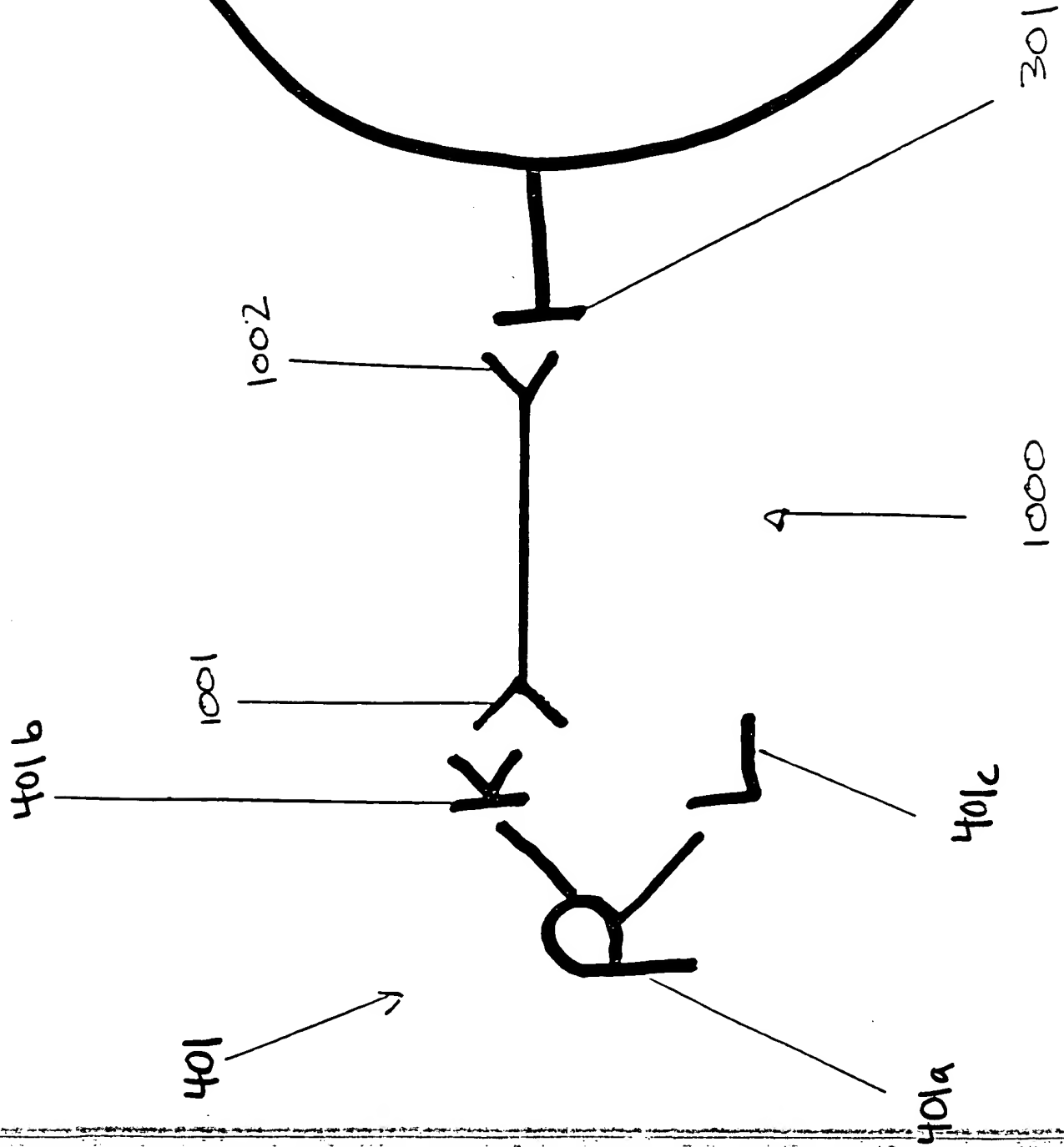


FIG. 35

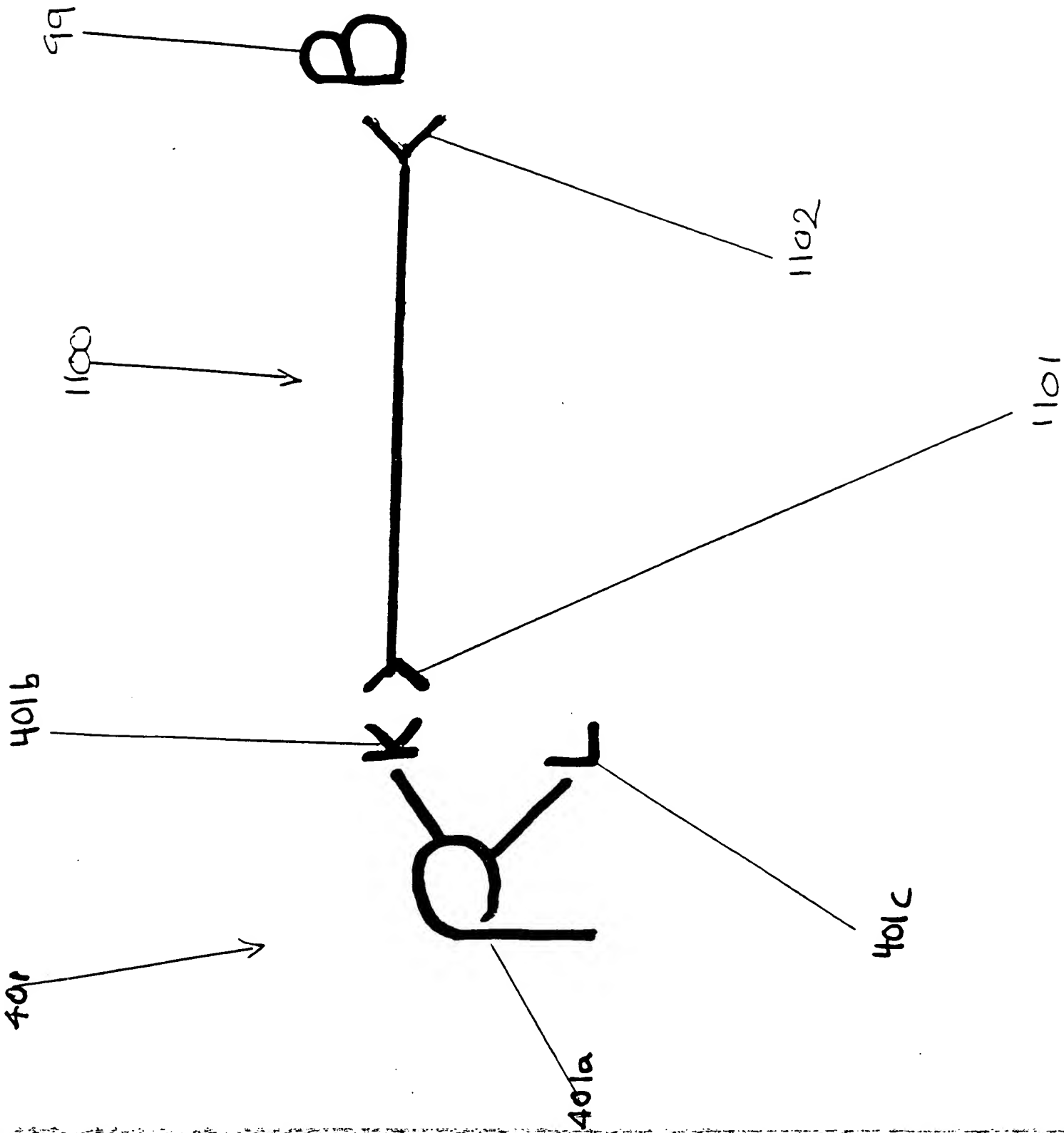


FIG. 36

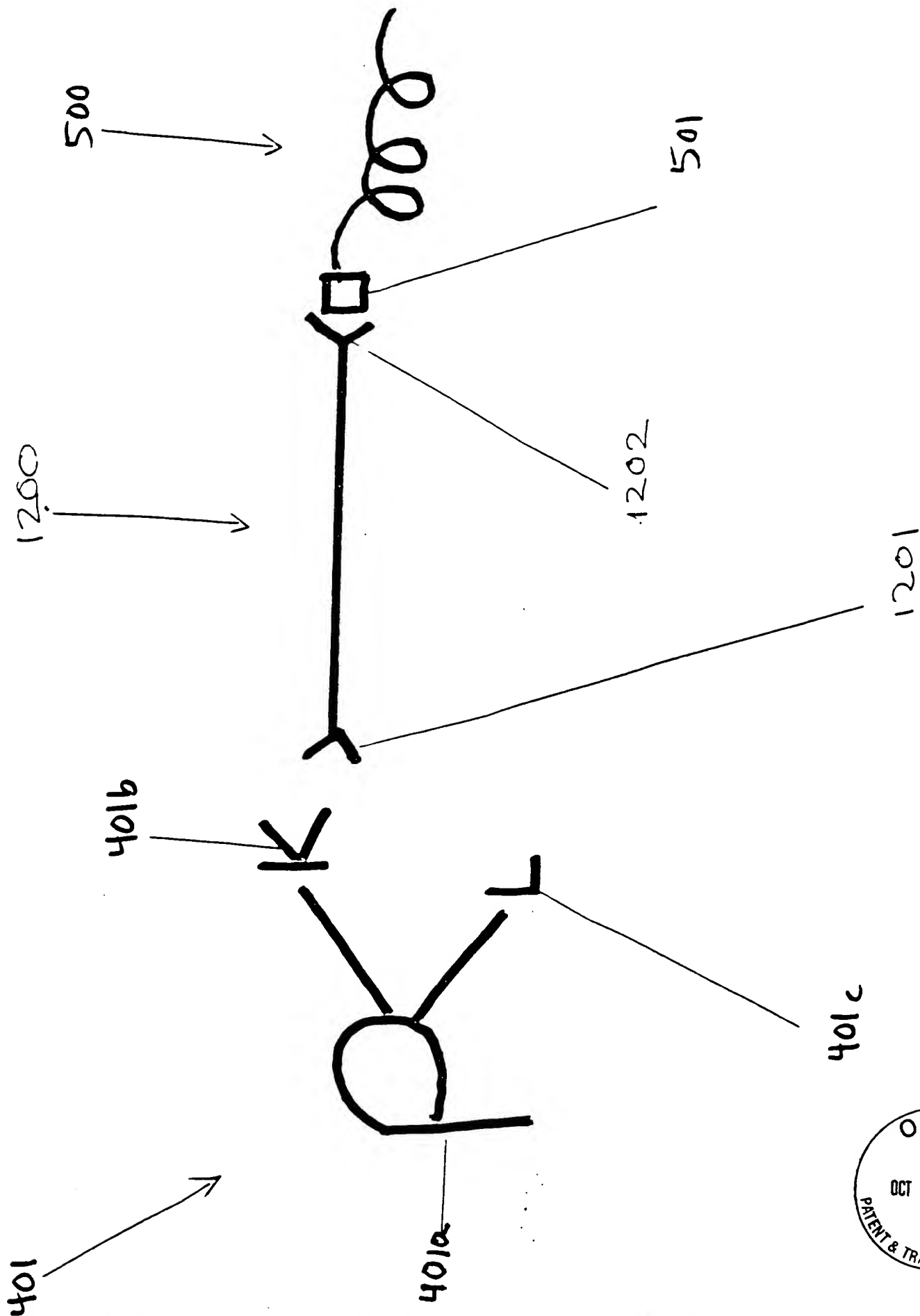


FIG. 37



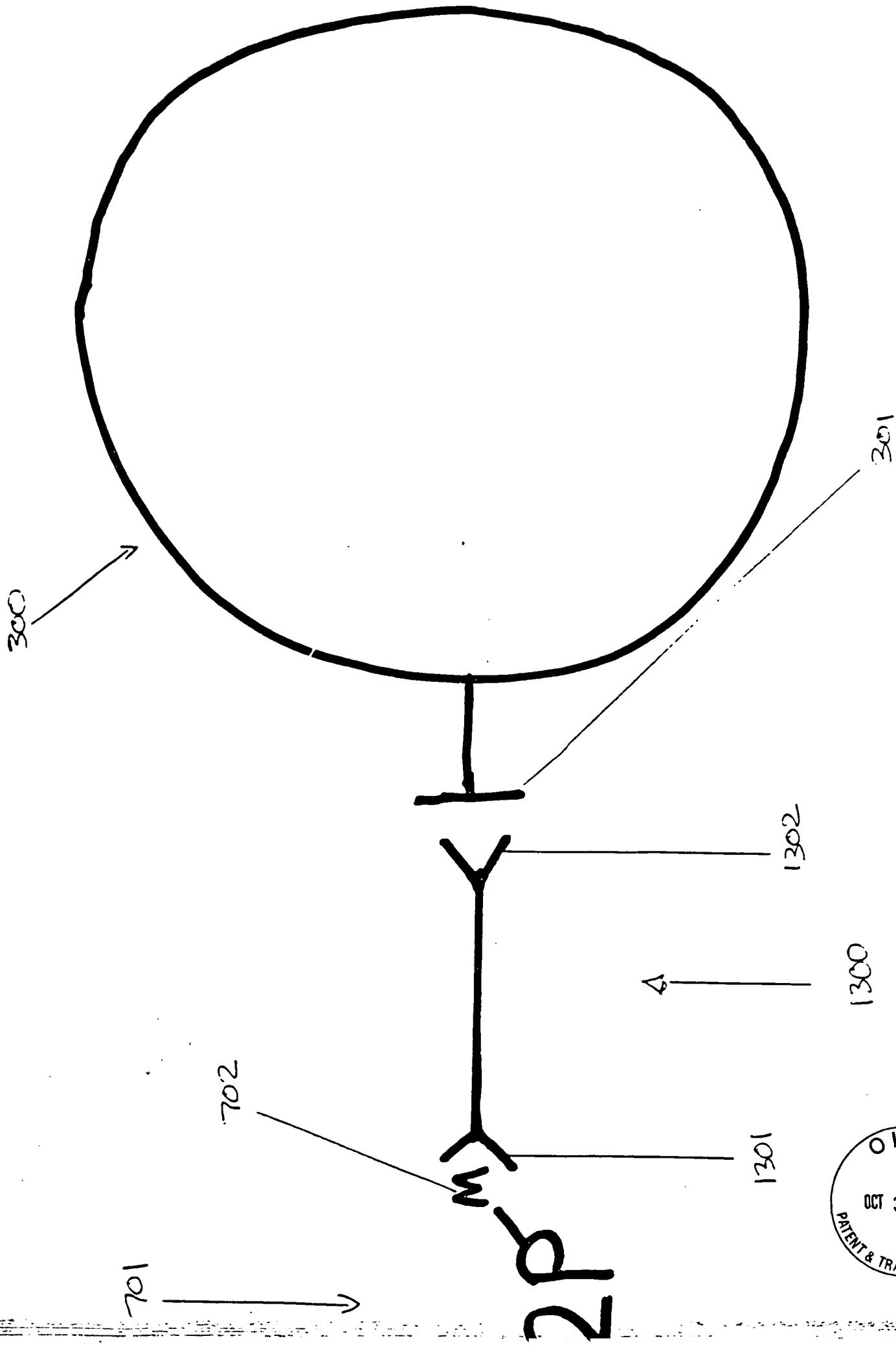


FIG. 38



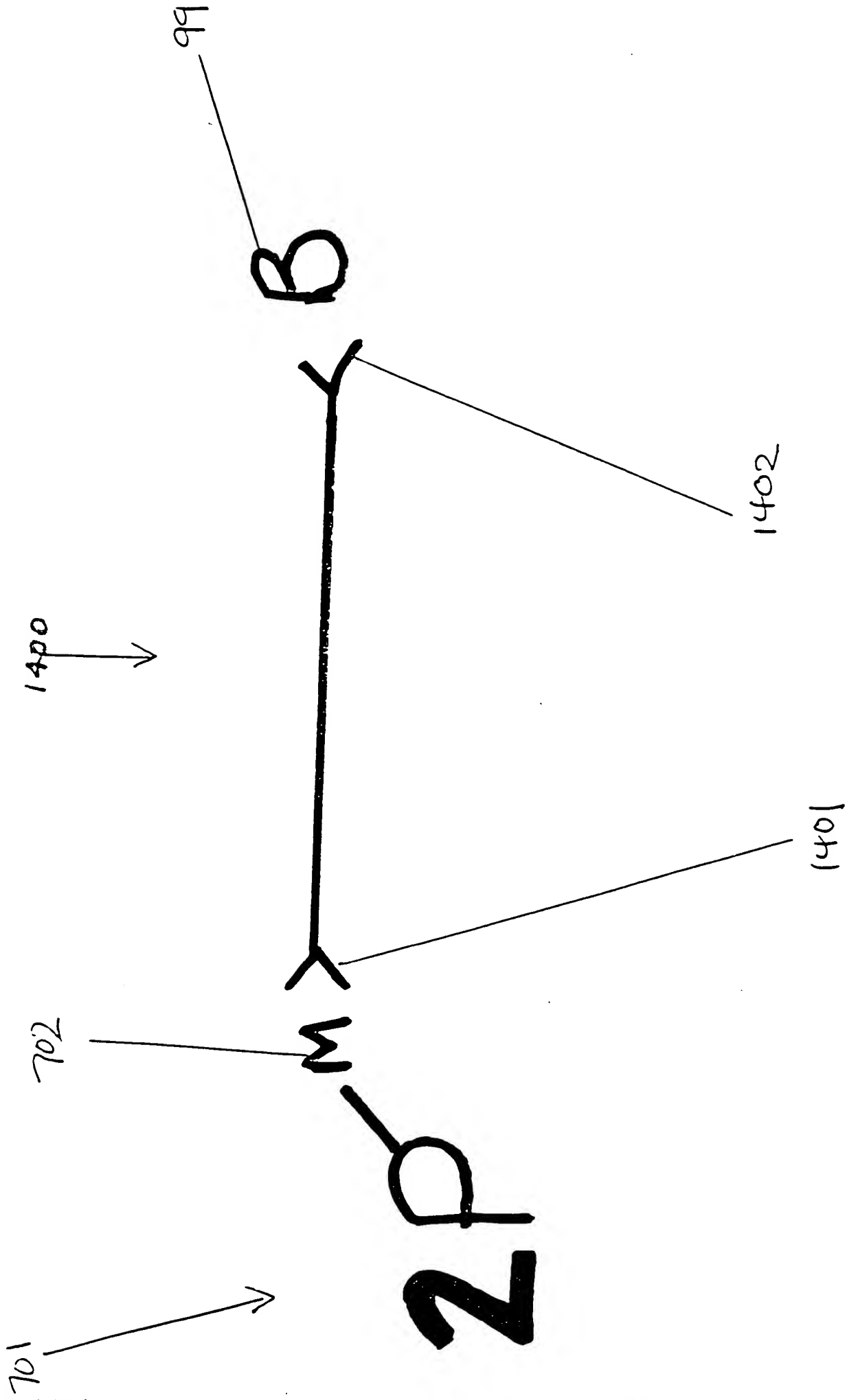


FIG. 39





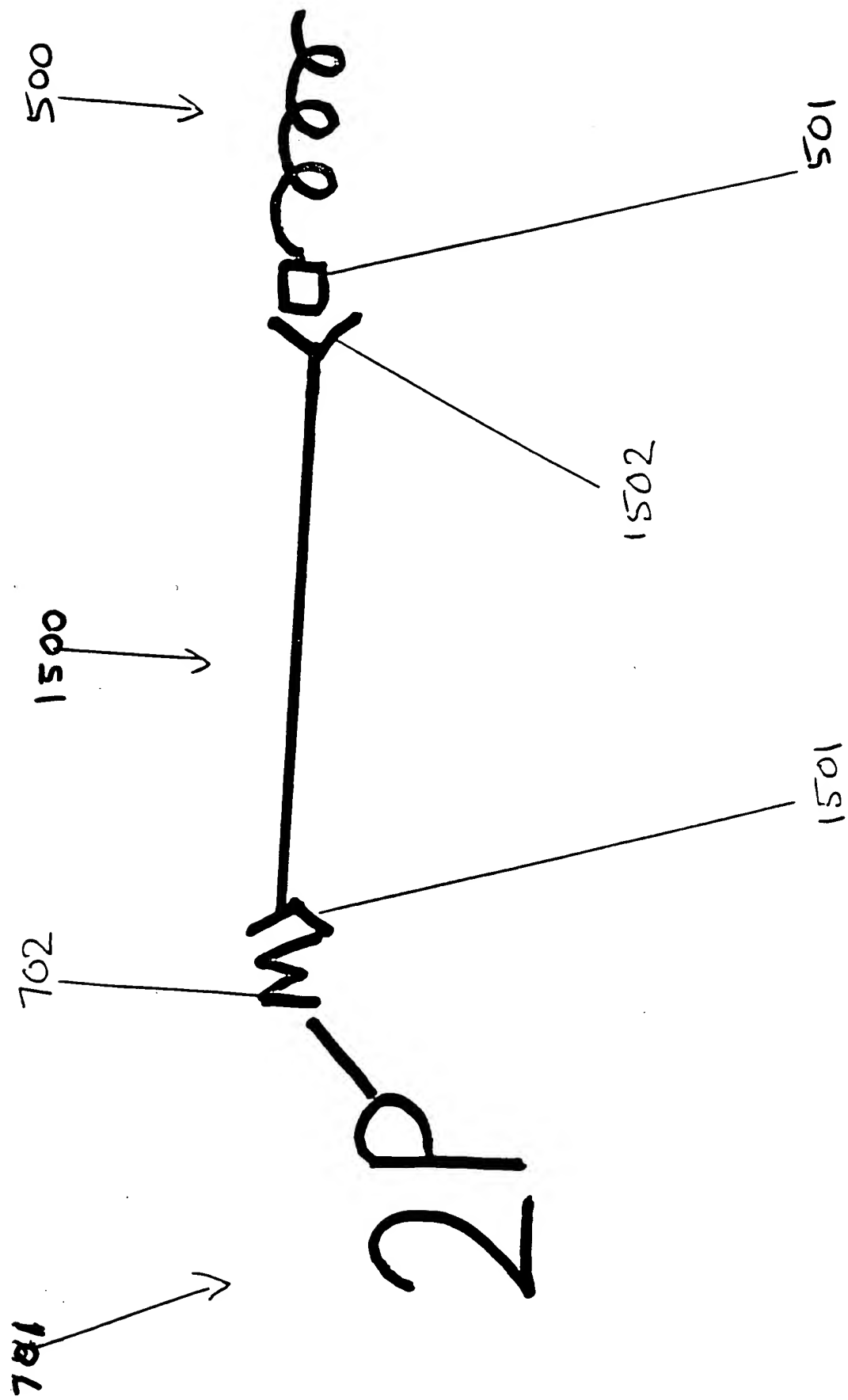


FIG. 40

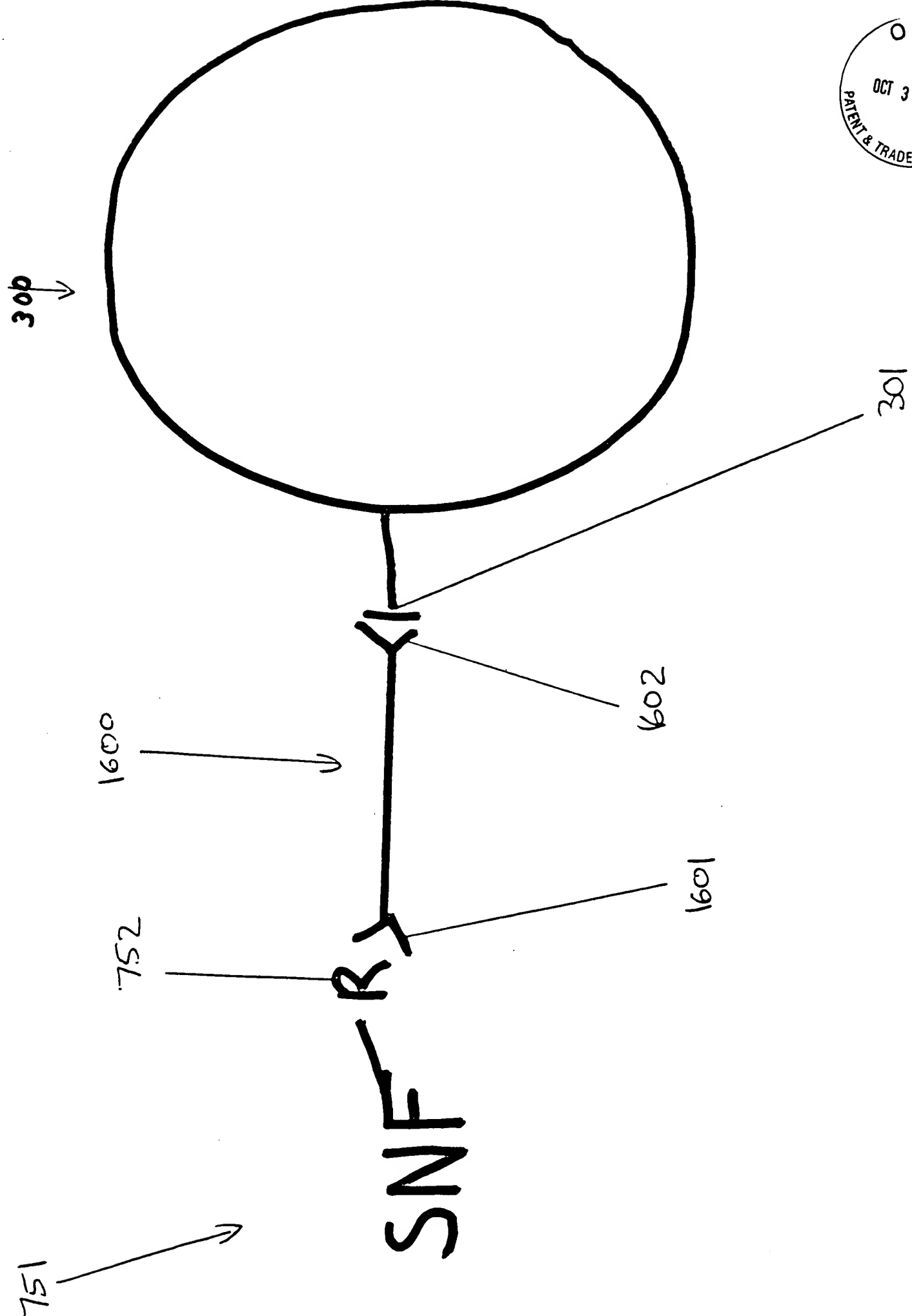
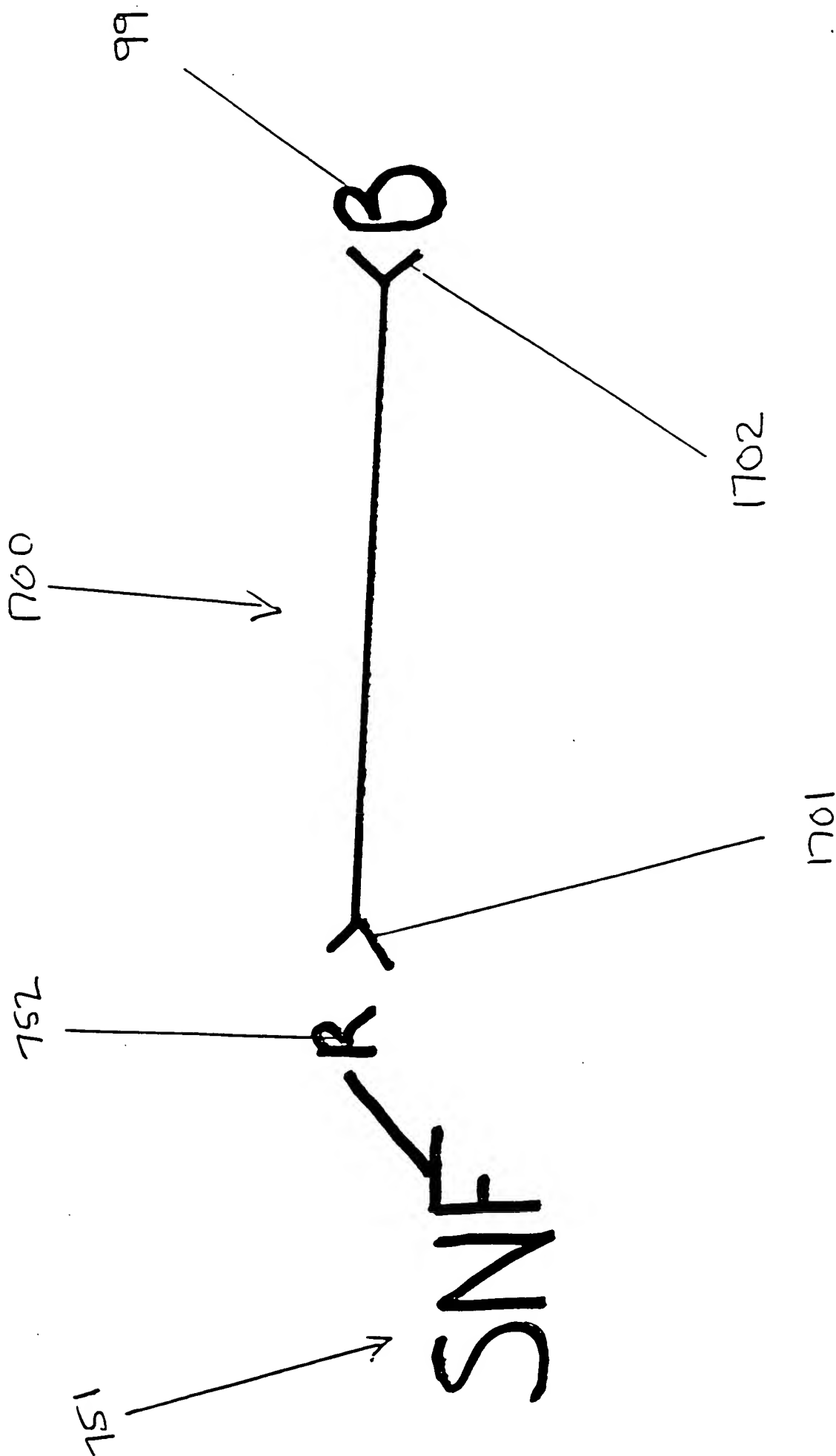


FIG. 41



FIG. 42



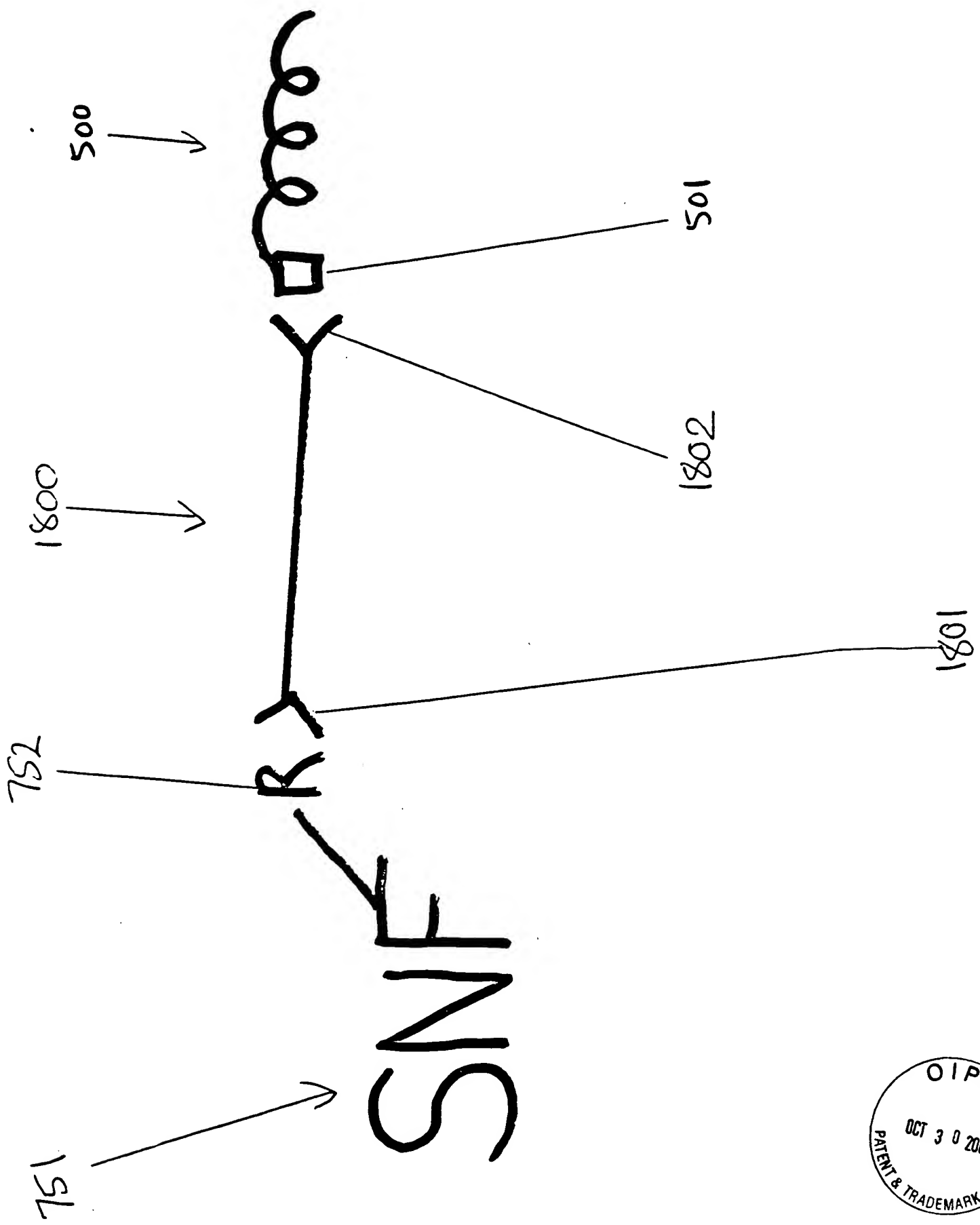


FIG. 43

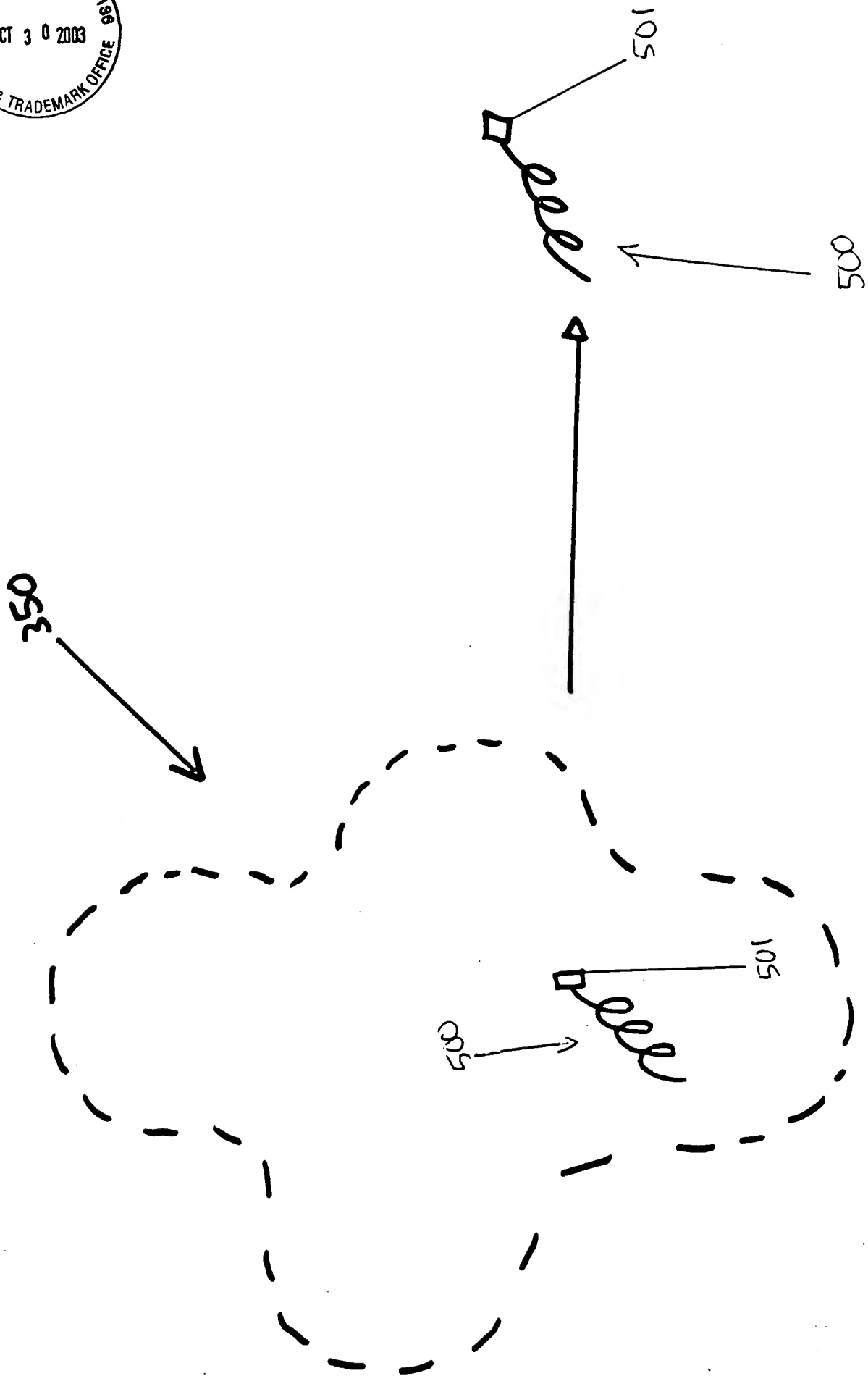


FIG. 44